NAME Debby Black

API NUMBER ASSIGNED

43007500190000

SIGNATURE

FORM 3 STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES AMENDED REPORT DIVISION OF OIL, GAS AND MINING 1. WELL NAME and NUMBER APPLICATION FOR PERMIT TO DRILL Wellington Federal 31-23 2. TYPE OF WORK 3. FIELD OR WILDCAT DEEPEN WELL (HELPER DRILL NEW WELL REENTER P&A WELL (5. UNIT or COMMUNITIZATION AGREEMENT NAME 4. TYPE OF WELL Coalhed Methane Well: YES Gas Well 6. NAME OF OPERATOR 7. OPERATOR PHONE -720 929-6587 KERR-MCGEE OIL & GAS ONSHORE, L.P. 8. ADDRESS OF OPERATOR 9. OPERATOR E-MAIL P.O. Box 173779, Denver, CO, 80217 mary.mondragon@anadarko.com 10. MINERAL LEASE NUMBER 11. MINERAL OWNERSHIP 12. SURFACE OWNERSHIP (FEDERAL, INDIAN, OR STATE) FEDERAL (INDIAN (FEE (iii) FEDERAL (INDIAN (FEE (IIII) STATE STATE (III) UTU-084536 13. NAME OF SURFACE OWNER (if box 12 = 'fee') 14. SURFACE OWNER PHONE (if box 12 = 'fee') 15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 16. SURFACE OWNER E-MAIL (if box 12 = 'fee') 19. SLANT 18. INTEND TO COMMINGLE PRODUCTION FROM 17. INDIAN ALLOTTEE OR TRIBE NAME **MULTIPLE FORMATIONS** (if box 12 = 'INDIAN') (Submit Commingling Application) NO VERTICAL (🗐) DIRECTIONAL (III HORIZONTAL (III) 20. LOCATION OF WELL **FOOTAGES** SECTION TOWNSHIP MERIDIAN OTR-OTR RANGE LOCATION AT SURFACE 967 FNL 1730 FEL NWNE 23 14.0 S 10.0 E S 967 FNL 1730 FEL NWNE 23 S Top of Uppermost Producing Zone 14.0 S 10.0 E At Total Depth 967 FNL 1730 FEL NWNE 23 14.0 S 10.0 E S 21. COUNTY 23. NUMBER OF ACRES IN DRILLING UNIT 22. DISTANCE TO NEAREST LEASE LINE (Feet) CARBON 120 25. DISTANCE TO NEAREST WELL IN SAME POOL 26. PROPOSED DEPTH (Applied For Drilling or Completed) MD: 1632 TVD: 1632 2160 27. ELEVATION - GROUND LEVEL 28. BOND NUMBER 29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Air Drilling - City of Price, UT 5692 WYB000291 ATTACHMENTS VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER COMPLETE DRILLING PLAN AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE) FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY TOPOGRAPHICAL MAP DRILLED)

PHONE 720 929-6472

Permit Manager

EMAIL Debby.Black@Anadarko.com

TITLE Staff Regulatory Analyst

DATE 05/14/2009

APPROVAL

API Well No: 43007500190000 Received: 5/12/2009

Proposed Hole, Casing, and Cement									
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)					
Cond	17.5	13.375	0	40					
Pipe	Grade	Length	Weight						
	Grade J-55 ST&C	40	54.5						

API Well No: 43007500190000 Received: 5/12/2009

	Proposed Hole, Casing, and Cement									
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)						
Surf	11	8.625	0	168						
Pipe	Grade	Length	Weight							
	Grade J-55 ST&C	168	24.0							

API Well No: 43007500190000 Received: 5/12/2009

Proposed Hole, Casing, and Cement									
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)					
Prod	7.875	5.5	0	1632					
Pipe	Grade	Length	Weight						
	Grade J-55 LT&C	1632	15.5						

2009 Cardinal Draw Plan of Development Carbon County, Utah

OPERATOR: KERR-McGEE OIL & GAS ONSHORE, L. P.

Federal Lease: UTU-084536

WELLINGTON FEDERAL 31-23

NW NE Section 23: Township 14 South - Range 10 East Carbon County, Utah

<u>Formation</u>	<u>Measur ed</u>	<u>SubSea</u>	<u>Lithology</u>
Mancos	Surf		
Ferron	1082	4620	Sandstone, shale, minor coal
Tunnunk	1465	4227	Shale, minor sandstone
Lower Tunnunk	1565	4127	Shale, minor siltstone
TD	1632		

	Setting Depth- KB	Sacks of Cement	Top of Ferron	Total Depth	Anticipated Bottom Hole Pressure
8-5/8", 24#, J-55 ST&C	168	72			
5-1/2", 15.5#, J-55 LT&C	1632	199	1082	1632	702

MASTER DRILLING PLANS (Southern Cardinal Draw)

1. ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS

Primary Objective: Ferron Methane Gas

Several coal seams may be tested for gas producing formations to total depth. All shallow water zones will be protected with casing and cement. Cement will be brought 700' above the Ferron unless water is encountered.

The casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones and any prospectively valuable deposits of minerals. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

- 2. MINIMUM BOP REQUIREMENTS: (Refer to attached schematics)
 - The BOPE shall be closed whenever the well is unattended.
 - b) The BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, after repairs, or every 30 days.
 - c) Kerr-McGee shall notify the BLM Price Field Office 24 hours prior to the BOPE test.
 - d) All BOPE shall meet or exceed the requirements of a 2M system as set forth in Onshore Order No. 2.
 - e) An accumulator unit will be used that has sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer and retain 200 psi above precharge on the closing manifold without the use of the closing pumps. The accumulator unit will be located at the master accumulator and on the rig floor. Hydraulic controls will be located at the master accumulator. Manual controls (hand wheels) will also be installed on the blind and pipe rams.
 - f) Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer.
 - g) Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
 - Accessories to BOP's include upper and lower Kelly cock valves with handle, floor safety valve and wireline-retrievable float valves.

3. SUPPLEMENTARY INFORMATION

As this is a normally pressured coal bed methane play, no gas is anticipated to surface during drilling operations. Surface casing will be preset with a water-well drilling rig (3D) and production casing will be set with a turnkey operator (Pense). Kerr-McGee will have a company hand on location for all operations. This is done to minimize rig time on location.

4. CASING PROGRAM:

Hole Size	Casing Size	Weight	Grade	Joint	Depth Set	New/Used	Collapse	Burst	Tension
17-1/2"	13-3/8"	54.5	J-55	ST&C	40	New	1,130	2,730	514,000
11"	8-5/8"	24	J-55	ST&C	168	New	1,370	2,950	244,000
7-7/8"	5-1/2"	15.5	J-55	LT&C	1680	New	4,040	4,810	217,000

Calculations are the minimum safety factor encountered at the deepest Cardinal Draw Wellington Well

Surface Casing:

Surface casing shall have a centralizer on every joint.

Production Casing:

5. DRILLING FLUIDS PROGRAM:

Surface:

Kerr-McGee intends to drill the surface casing through to 10% of total depth using fresh water and gel sweeps. No gas or water zones will be encountered and as such BOPE will not be used.

Production:

Drilling of the production hole to casing setting depth will be done with air as the drilling fluid. While drilling in an under balanced state, Kerr-McGee and/or its rig contractor will maintain sufficient barite and lost-circulation materials on the location kill water flows and contain gas production, if deemed necessary. These material will not be pre-mixed, but the ability to mix and pump them will be present on location.

Kerr-McGee requests a variance from Onshore Order 2 with regards to the 100 foot bloocy line. The length of the bloocy line will be sufficient to reach the middle of the reserve pit. Since gas flow is not anticipated to surface, there will not be an ignition devise. In the event that gas does flow to surface, a continuous ignition system will be installed and utilized on all remaining subsequent wells drilled. Air flow line is 8" Schedule 80 pipes that runs 90° from the well bore to the reserve pit. The last 7" of flow line is 14" pipe with three (3), 45°, 8" Schedule 80 pipes to disperse cuttings to reserve pit. Dust will be suppressed by injecting water into the bloocy line. Whip-checks will also be utilized on all pressurized compressors, bloocy lines and hoses to maintain physical control. Fire extinguishers will be placed around location.

The open hole will be loaded with water and a micro-emulsion agent prior to tripping out of the hole to run wire line logs and case.

6. CEMENTING PROGRAM:

8-5/8" Surface Casing:

Tail: Class "G" + 2% CaC12 + 0.25 lb/sack Superflake, mixed at 15.6 ppg, 1.19 cu fl/sk yield with 100% excess by volume.

The surface casing shall be cemented back to surface. In the event cement does not circulate to surface or fall back of the cement column occurs, remedial cementing shall be done to cement the casing back to surface.

5-1/2" Production Casing:

Tail: Class "G" Cement + 2% CaCl2 + 0.25 lb/sack Superflake, mixed at 15.8 ppg, 1.2 cu ft/sk yield with 10% excess. Volumes calculated to circulate cement from TD to 700' above the Ferron formation with 10% excess by caliper log.

Centralizers will used to maintain a minimum of 70% Casing-Sidewall Standoff

7. LOGGING PROGRAM

Well completion and stimulation procedures will be determined following the evaluation of the drilling results and open hole logs. A "Sundry Notice" will be submitted for approval outlining the planned completion procedure at the time.

Logs:		From	To
	GR	TD	Surface - if needed
	Resistivity	Surface Casing	TD
	Neutron-Density-Cal	Surface Casing	TD
	High Res Pass	Surface Casing	TD

DSTs: None

8. PRESSURE DATA, POTENTIAL HAZARDS

Bottom hole is anticipated to be normally pressured. There is no history of hydrogen sulfide gas in the area and none is anticipated.

9. ANTICIPATED STARTING DATES AND NOTIFICATION OF OPERATIONS:

Cores: None

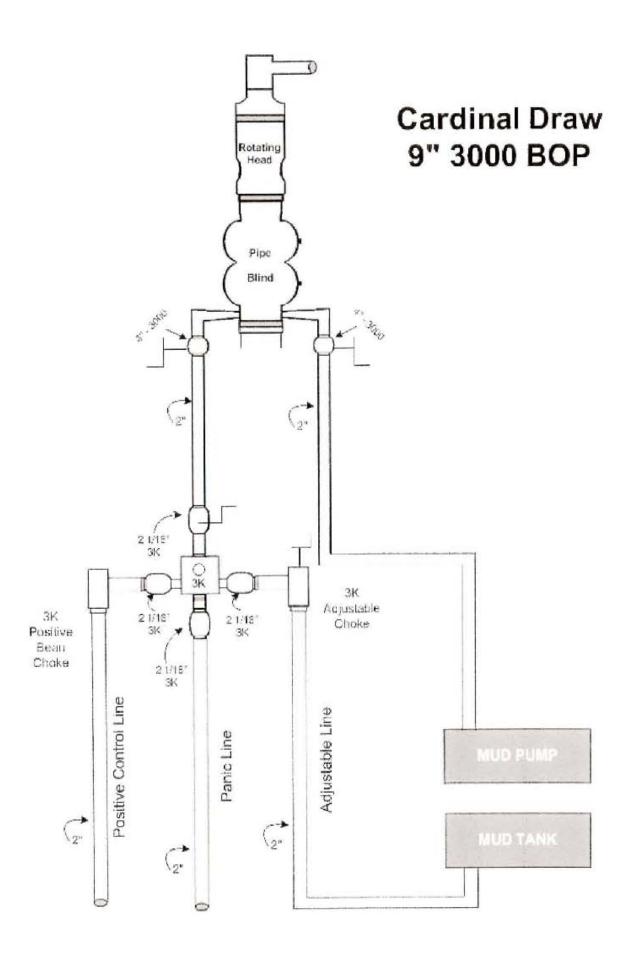
) Anticipated Days: Drilling Days: Approximately 4 Days/Well
Completion Days: Approximately 2 Days/Well
Testing Days: Approximately 7-14 Days/Well

b) Notification of Operations: Bureau of Land Management - BLM Price Field Office Utah

125 South 600 West Price, UT 84501 435-636-3600

Attn: Mr. Marvin Hendricks, Petroleum Engineer 435-636-3661

Attn: Mr. Kyle Beagley - NRS 435-636-3668



CERTIFICATION STATEMENT

WELL NAME: Wellington Federal 31-23

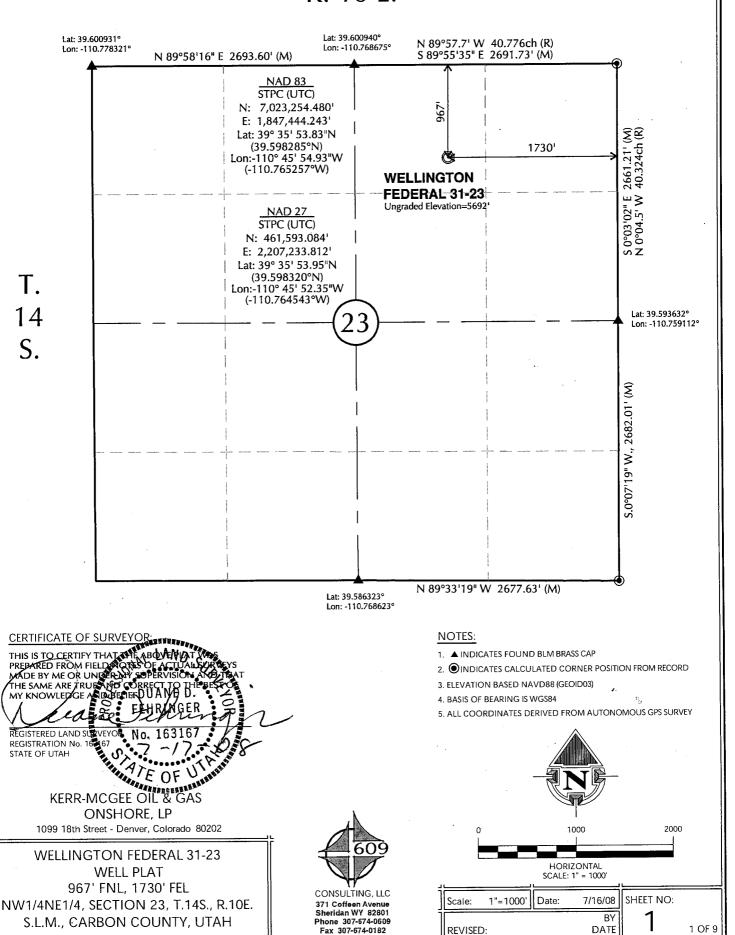
LEASE No.: UTU-084536

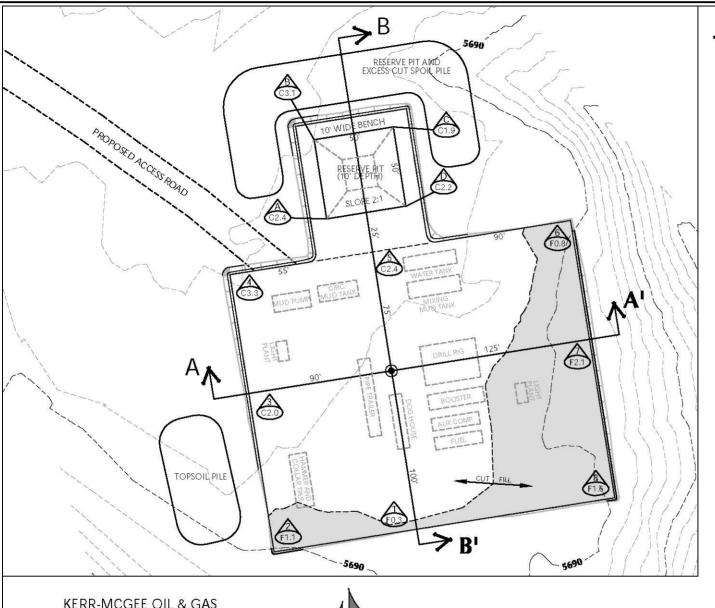
I hereby certify that I, or person under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with the operations herein will be performed by Nelco, Inc., construction contractor, Pense Brothers Drilling Company, Nabors Wells Service Rig #808, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C 1001 for the filing of a false statement.

Emile Goodwin, Drilling Engineer

Dated this 20th day of March, 2009.

R. 10 E.





WELL PAD LEGEND

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WELL LOCATION
EXISTING CONTOURS (2' INTERVAL)
PROPOSED CONTOURS (2' INTERVAL)

WELL PAD 31-23 QUANTITIES

EXISTING GRADE @ LOC. STAKE = 5,691.7'
FINISHED GRADE ELEVATION = 5,690.9'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 823 C.Y.
TOTAL FILL FOR WELL PAD = 682 C.Y.
TOPSOIL @ 6" DEPTH = 853 C.Y.
TOTAL DISTURBANCE = 1.06 ACRES
SHRINKAGE FACTOR = 1.15
SWELL FACTOR = 1.00
TOTAL PIT CAPACITY WITH 2' OF FREEBOARD
+/- 1,850 BARRELS
TOTAL PIT VOLUME
+/- 482 CY

KERR-MCGEE OIL & GAS ONSHORE L.P.

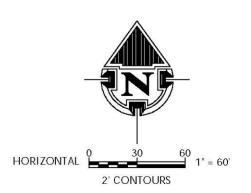
1099 18th Street - Denver, Colorado 80202

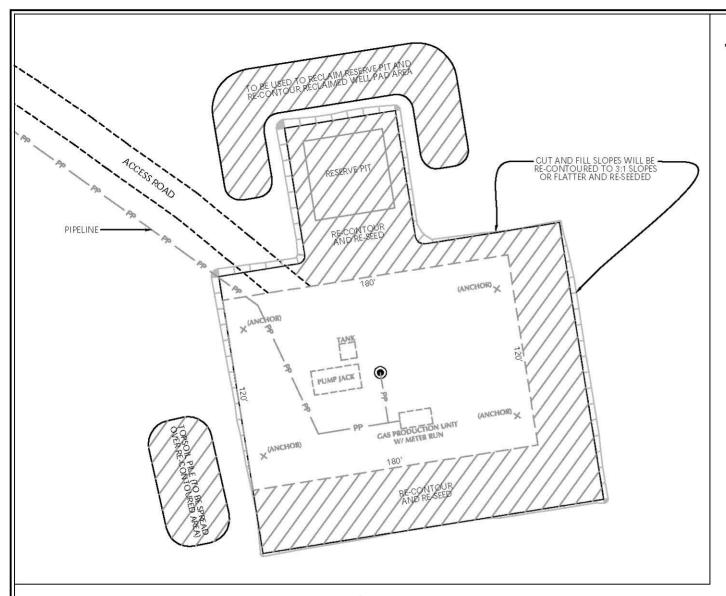
WELLINGTON FEDERAL 31-23
WELL PAD - LOCATION LAYOUT
967' FNL, 1730' FEL
NW1/4NE1/4, SECTION 23, T.14S., R.10E.
S.L.M., CARBON COUNTY, UTAH



CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

Scale:	1"=60'	Date:	07/29/08	SHEET NO:	
REVISED:			BY Date	2	2 OF 9





WELL PAD LEGEND

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WELL LOCATION



RECLAIMED AREA



RECLAIMED BOUNDARY

KERR-MCGEE OIL & GAS ONSHORE L.P.

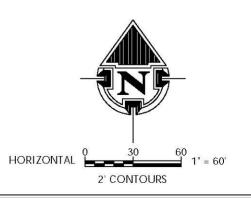
1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23
WELL PAD - RECLAMATION LAYOUT
967' FNL, 1730' FEL
NW1/4NE1/4, SECTION 23, T.14S., R.10E.
S.L.M., CARBON COUNTY, UTAH



CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

Scale:	1"=60'	Date:	07/29/08	SHEET NO:	
REVISED:		<u> </u>	BY Date	2A	2A OF 9



125

90'

5700

5700



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE WEST



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE NORTH

KERR-MCGEE OIL & GAS ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23 LOCATION PHOTOGRAPHS 967' FNL, 1730' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH



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	Scale:	NTS	Date:	07/29/08	SHEET NO:
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4 OF 9



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE SOUTH



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE EAST

KERR-MCGEE OIL & GAS ONSHORE L.P. 1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23 LOCATION PHOTOGRAPHS 967' FNL, 1730' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH



CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

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Scale:	NTS	Date:	07/29/08	SHEET NO:	
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'APIWellNo:43007500190000'



PHOTOGRAPH OF PROPOSED ACCESS INTO THE WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE NORTHWEST

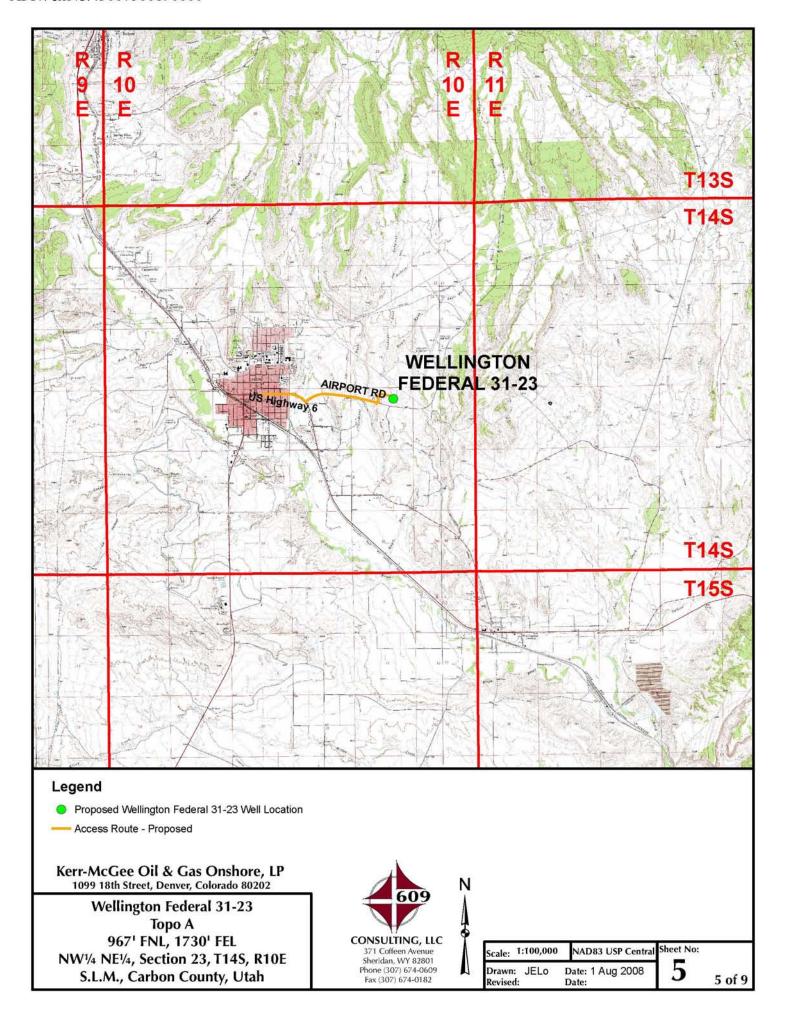
KERR-MCGEE OIL & GAS ONSHORE L.P.

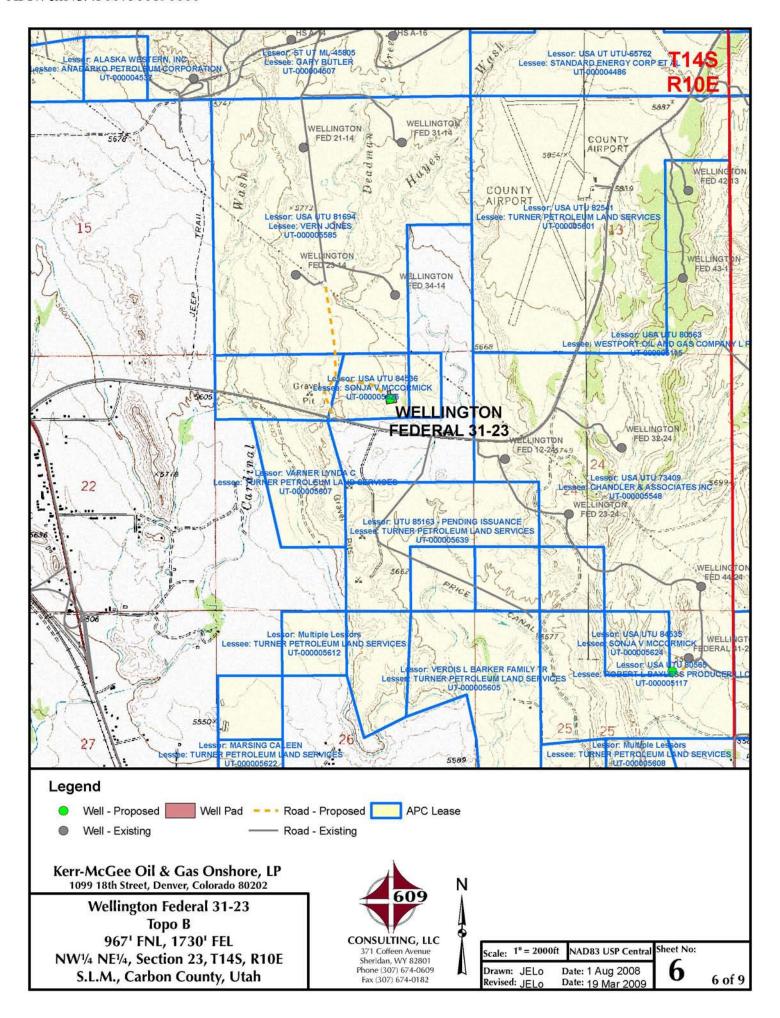
1099 18th Street - Denver, Colorado 80202

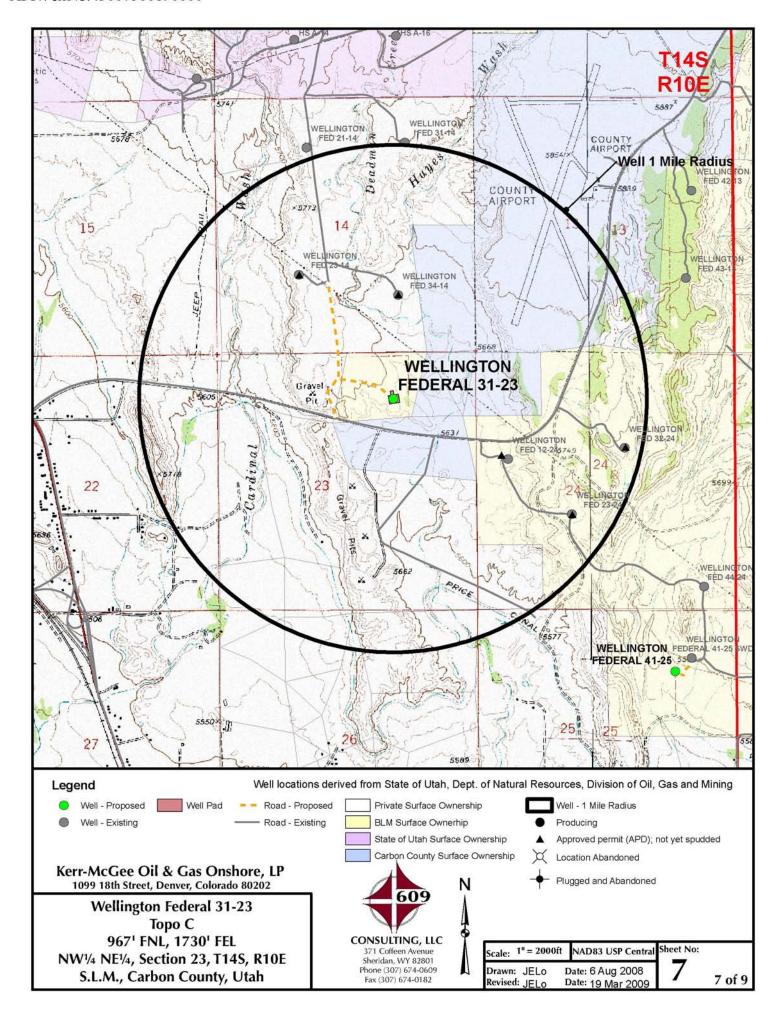
WELLINGTON FEDERAL 31-23 LOCATION PHOTOGRAPHS 967' FNL, 1730' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH

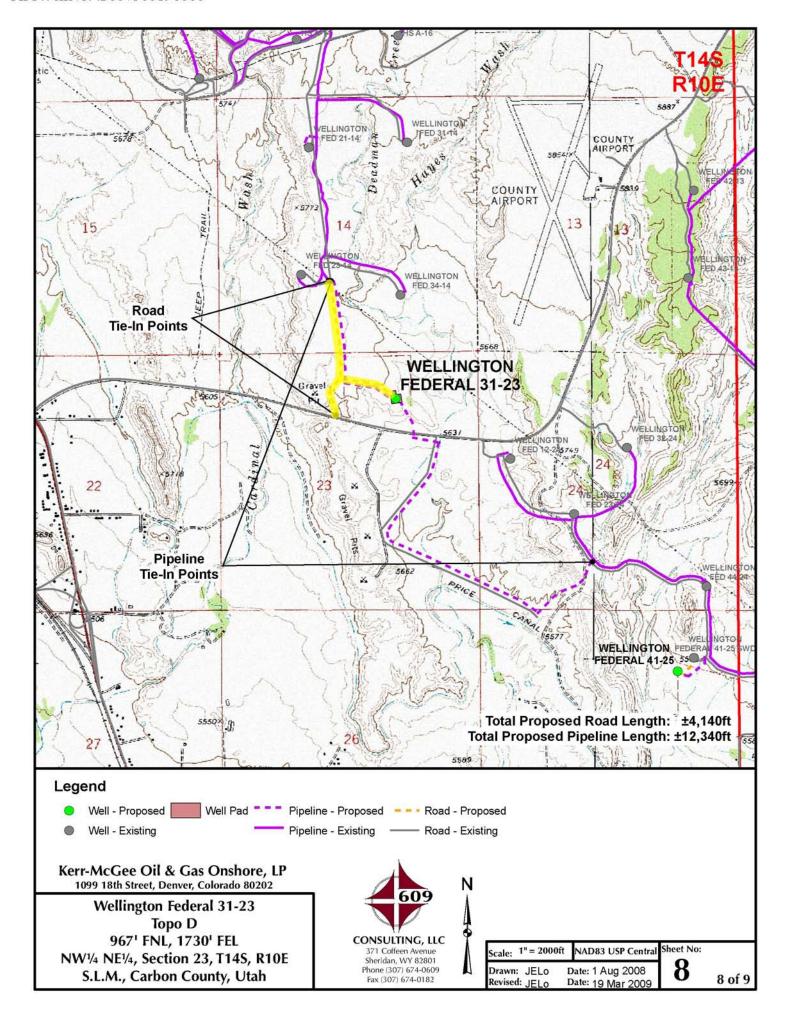


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REVISED:			BY Date	4B	4B OF 9









Kerr-McGee Oil & Gas Onshore, LP WELLINGTON FEDERAL 31-23 SECTION 23, T14S, R10E, S.L.M.

PROCEED IN AN EASTERLY DIRECTION FROM PRICE, UTAH, ALONG U.S. HIGHWAY 6, GRADUALLY CHANGING TO SOUTHERLY, APPROXIMATELY 0.8 MILES TO THE JUNCTION OF AIRPORT ROAD; EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF AIRPORT ROAD AND THE PROPOSED ACCESS ROAD TO THE WELLINGTON FEDERAL 21-23 AND WELLINGTON FEDERAL 31-23, TO THE NORTH; EXIT LEFT AND PROCEED IN A NORTHERLY DIRECTION FOLLOWING THE ROAD FLAGS, APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND THE BEGINNING OF PROPOSED ACCESS ROAD TO THE WELLINGTON FEDERAL 31-23 TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION; FOLLOWING THE ROAD FLAGS APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED WELLINGTON FEDERAL 31-23 WELL LOCATION.

TOTAL DISTANCE FROM PRICE, UTAH, TO THE PROPOSED WELLINGTON FEDERAL 31-23 WELL LOCATION IS APPROXIMATELY 2.4 MILES.

Kerr-McGee Oil & Gas Onshore, L. P.

A Wholly Owned Subsidiary of Anadarko Petroleum Corporation

2009 Cardinal Draw "Ferron" CBM Program Federal Lease UTU-084536 WELLINGTON FEDERAL 31-23

NW NE, Section 23: Township14 South-Range 10 East SLB&M
Carbon County, Utah

SURFACE USE PLAN OF OPERATIONS

This Surface Use Plan of Operations (SUPO) is submitted as part of an Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. This SUPO covers the proposed location to be drilled by Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) starting August 2009:

An on-site meeting was held with BLM on October 22-23, 2008, for each location with Federal involvement. The details of each on-site meeting will be discussed in each well's specific APD. Specific stipulations arising from the on-site meeting will be shown as starred. The following people attended the on-site meeting:

BLM-Price Field Office: Jeffrey Brower, Karl Ivory, Connie Leschin, Don Stephens, Dana

Truman, David Waller.

Utah Division of Wildlife

Resources (UDWR): Kyle Beagley

609 Consulting LLC (609): Greg Hoechst, Rob Wilson

SWCA Environmental

Consultants (SWCA): Chuck Bollong

Grasslands Consulting, Inc.

(Grasslands): Nick Hall
OtterTail Environmental Inc.: Thomas Ryon

Kerr-McGee: Debby Black, Jim Hartley, Danielle Piernot

WELL LOCATION AND INTRODUCTION:

The proposed location is at 967' FNL, 1730' FEL of Section 23, T14S-R10E, SLB&M. The well site was surveyed and staked at a geologically acceptable location by 609 Consulting, LLC.

DIRECTIONS TO LOCATION:

PROCEED IN AN EASTERLY DIRECTION FROM PRICE, UTAH, ALONG U.S. HIGHWAY 6, GRADUALLY CHANGING TO SOUTHERLY, APPROXIMATELY 0.8 MILES TO THE JUNCTION OF AIRPORT ROAD; EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE JUNCTION OF AIRPORT ROAD AND THE PROPOSED ACCESS ROAD TO THE WELLINGTON FEDERAL 21-23 AND WELLINGTON FEDERAL 31-23, TO THE NORTH; EXIT LEFT AND PROCEED IN A NORTHERLY DIRECTION FOLLOWING THE ROAD FLAGS, APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND THE

BEGINNING OF PROPOSED ACCESS ROAD TO THE WELLINGTON FEDERAL 31-23 TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION; FOLLOWING THE ROAD FLAGS APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND THE PROPOSED WELLINGTON FEDERAL 31-23 WELL LOCATION.

TOTAL DISTANCE FROM PRICE, UTAH, TO THE PROPOSED WELLINGTON FEDERAL 31-23 WELL LOCATION IS APPROXIMATELY 2.4 MILES.

1) EXISTING ROADS

- A) This well is a development well.
- B) Typically, existing roads within 1 mile consist of oil field roads between 0.5 1 mile of each location. Specific existing road information will be discussed within each well's APD.
- C) Plans for improvement and/or maintenance of existing roads are to be maintained in as good or better conditions then at present and said maintenance will continue until final abandonment and reclamation of each drilling location.
- 2) PLANNED ACCESS ROADS (See Sheet No. 5 (Topo A), 6 (Topo B), 7 (Topo C), and 8 (Topo D)).

±935' or 0.18 miles on lease. New road construction (Topo D yellow highlighted access road), Section 23 – Federal UTU-084536, on lease.

 ± 1670 ' or 0.32 miles, off lease from the edge of the federal 085163 lease line on private surface owner "The Albert and Leona F. Leautaud Trust" in Section 23 with an agreement for all disturbed area to the County Road.

 ± 1535 ' or 0.29 miles, off lease in Section 14 from the Wellington Federal 23-14 to the edge of the lease line.

This Application for Permit to Drill (APD) can serve as a request for BLM to initiate a Right-of-Way (ROW) application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead.

- A) Running surface will be crowned/ditched with a running surface ±16' and the total disturbed width to be 50'. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions than at present. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.
- B) Borrow ditches to be back sloped 3:1 or shallower.
- C) Maximum grades will not exceed BLM standards.
- D) Low-water crossings and culverts, if needed, will be installed prior to drilling. Drainage consist of borrow ditches on both sides and "wind ditches" as appropriate. Riprap will be placed at the inlet and outlet at the culvert adjacent to the well pad. Low water crossings may be used during drilling and upon completion if conditions dictate. Culverts will be installed prior to commencement of drilling operations. The borrow ditches along the proposed access road will be re-seeded if the well is completed as a producer. The reseeding of the borrow ditches will reduce the area utilized by each location.

- E) Surfacing material to consist of native material from borrow ditches. Road will be gravel surfaced. Gravel will be hauled by truck from a licensed facility.
- F) No major road cuts are necessary.
- G) New fence cuts, gates and/or cattle guards will be discussed in each well's APD.
- H) Upgrade and maintain access roads as necessary to prevent solid erosion and accommodate year-round traffic.
- I) All equipment and vehicles will be confined to the access road, pad, and areas specified in the APD.
- J) The proposed access road will be constructed in accordance with roading guidelines established for oil and gas exploration and development activities as referenced in the joint BLM/USFS publications: Surface Operating Standards for Oil & Gas Exploration and Development. Third Edition and/or BLM Manual Section 9113 concerning road construction activities on projects under federal jurisdiction. The qualified construction supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drill site construction, and able to speak for the operator. The dirt contractor, or drilling /completion foremen, whose primary expertise is not in construction, do not qualify as construction supervisors.
- K) Construction activity shall not be conducted using frozen or saturated solid material or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur.
- L) Vegetative debris is not permitted in or under fill embankments.

3) LOCATION OF EXISTING WELLS

Within a 1-mile radius (Sheet No. 7 – Topo C):

Proposed: 0
Drilling/injection: None
Shut-In: None
Producing: 5

4) NEW PRODUCTION FACILITIES PROPOSED

- A) BLM will be contacted prior to construction of production facilities. A Sundry Notice (SN) will be filed if requested by BLM.
- B) Meter houses are skid mounted. A pump house may be installed if needed. Flow lines will be buried alongside or under the access road. Electric power will be buried wires, also installed alongside the access road. Both will be within the corridor as surveyed by the archaeologist. Any changes from this plan will be submitted to the BLM Field Office by Sundry Notices. New flow lines will connect with existing flow lines, produced fluid will be piped to the existing tank battery.
- C) Electric lines and pipelines will be placed in separate trenches, adjacent to each other and in the corridors surveyed by the archaeologist.
- D) Dimension of Proposed Facility is typically 260' x 215' or less (55,900 ft²) for drilling operations. Total disturbance for the entire pad, including reserve pit, topsoil and excess material spoil piles, and typical construction disturbance will be approximately 1.20 acres.
- E) Site preparation for production will be done with standard excavation equipment using native materials. Additional surface material will be obtained from commercial sources or the approved borrow area. Production facilities, if used, must be placed on the cut portion of the location and a minimum of 15 feet from the toe of the back cut.

- F) Production equipment will be painted light reflective colors to limit evaporation and waste of liquid hydrocarbons, per BLM specifications.
 - All permanent above-the-ground structures, tank batteries, etc. if used, that will remain longer than six (6) months will be painted Olive Black, or as specified by BLM. The exception being that Utah Occupation Health and Safety Act Rules and Regulations are to be complied with where special safety colors are required.
- G) Production facilities are planned on location, and may vary according to actual reservoir discovered and will be engineered upon completion of well tests. Production facilities will be clustered and placed away from cut slopes and fill slopes to allow the maximum recontouring of cut and fill slopes.
 - If the well is a producer, all production facilities not listed herein will be authorized by Sundry Notice.
- H) No facilities will be constructed off location except as noted in paragraph A) above.
- I) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes to the surrounding topography. No depressions will be left that trap water or form ponds. These areas will be re-seeded. Refer to plans for restoration of surface for additional details.
- J) Pits which contain oil, if used, will be overhead flagged. None are planned at this time.
- K) The pipeline ROW will be handled under separate cover, as previously arranged with the Realty Specialist at BLM-Price.

5) LOCATION OF WATER SUPPLY

- A) Minimal water will be needed as these wells will be air-drilled. When water is needed, it will be obtained from the city of Price.
- B) Anticipated water use is as follows:
 Air drilling will be used, so the mud drilling water requirements will be minimal, if any.

6) SOURCE OF CONSTRUCTION MATERIALS

- A) Construction materials will consist of native materials from borrow ditches and location areas.
- B) Surfacing materials will be obtained form available permitted sources, if needed, and consist of pit gravel. Gravel will be hauled by truck from a licensed facility.

7) WASTE DISPOSAL

- A) Drill cuttings will be buried in reserve pit when dry.
- B) Drilling fluid will be evaporated and then buried in the reserve pit when dry.
- C) Reserve pit layout is illustrated on Sheet 2 and 2A.
- * D) Reserve pit will be lined with a synthetic liner 12 mil or thicker. The reserve pit liner shall be made of any manmade synthetic material of sufficient size and qualities to sustain a hydraulic conductivity no greater than 1 x 10⁻⁷ cm/sec after installation and which is sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use thereof. The liner shall be chemically compatible with all substances that may be put into the pit.
 - E) Reserve pit will be fenced on three sides during drilling operations and on fourth side at time of rig release. Pit will remain fenced until backfilled.
- * F) If used, a flare pit for air drilling will be located minimum 100' from wellbore.
 - G) Produced fluid will be contained in test tanks during completion and testing.

- * H) Sewage disposal facilities will be in accordance with Federal, State and Local Regulations. Sewage may not be buried on location or put in a borehole. Utah Department of Environmental Quality (UDEQ) Regulations prevent this unless a UDEQ Permit is obtained.
- * I) Garbage and other waste burnable waste will be contained in a portable trash cage which will be totally enclosed with small mesh wire. Cage and contents will be transported to and trash dumped at a WDEQ approved Sanitary Landfill upon completion of operations.
 - J) Trash will be picked up if scattered and contained in trash cage as soon as practical after rig is moved off.
 - K) Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.
 - L) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the Authorized Office (AO). Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry or solidified in-situ prior to backfilling.

8) ANCILLARY FACILITIES

No ancillary facilities will be necessary.

9) WELLSITE LAYOUT (See Sheet 2 and 2A).

Note: <u>Bureau of Land Management will be contacted prior to reserve pit construction and provided an opportunity to inspect the pit prior to filling with water.</u>

- A) See specific well's APD for the drill site plat and cut/fill diagram.
- B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.
- C) If there is snow on the ground when construction begins, the operator will remove it before the soil is disturbed, and pile it downhill from the topsoil stockpile location.
- D) Both backslope and foreslope will be constructed no steeper than $1\frac{1}{2}$:1.
- E) Erosion control measures will be applied pursuant to Kerr-McGee's General Permit to Discharge Stormwater under the Utah Pollutant Discharge Elimination System and accompanying Stormwater Pollution Prevention Plan.

10) SURFACE PREPARATION

(General)

- A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.
- B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).
- C) In areas that will not be drill-seeded, the seed mix will be applied and fertilized per BLM's Conditions of Approval (COAs).

- D) No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding will be conducted after the frost leaves the ground and no later that May 15.
- E) Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) will be submitted to the BLM for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.
- F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.
- G) Reclamation monitoring will be documented in an annual reclamation report submitted to the AO by December 31. The report will document compliance with all aspects of the reclamation objectives and standards, identify whether the reclamation objectives and standards are likely to be achieved in the near future without additional actions, and identify actions that have been or will be taken to meet the objectives and standards. The report will also include acreage figures for: Initial Disturbed Acres; Successful Interim Reclaimed Acres; Successful Final Reclaimed Acres. Annual reports will not be submitted for sites approved by the AO in writing as having met interim or final reclamation standards. Any time 30% or more of a reclaimed area is redisturbed, monitoring will be reinitiated.
- H) The AO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.

INTERIM RESTORATION (Production)

- Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and A) contouring the reserve pit area, back sloping and contouring all cut and fill slopes. These areas will be re-seeded.
- B) Well pad size will be reduced to minimum size necessary to conduct safe operations. Cuts and fills will be reduced to 3:1 or shallower.
- C) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the Authorized Office (AO). Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry or solidified in-situ prior to backfilling.
- D) Following completion activities, pit liners will be buried to prevent their reemergence to the surface and interference with long-term successful revegetation. If it was necessary to line the pit with a synthetic liner, the pit will not be trenched (cut) or filled (squeezed) while containing fluids. When dry, the pit will be backfilled with a minimum of five (5) feet of soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled pit.

- E) The portions of the cleared well site not needed for operational and safety purposes will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.
- F) Topsoil will be evenly re-spread and aggressively re-vegetated over the disturbed area not needed for all-weather operations back to the rig anchors, including road cuts and fills and to within a few feet of the production facilities, unless an all-weather, surfaced, access route or small "teardrop" turnaround is needed on the well pad.
- G) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut and fill slopes.
- H) To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut and fill slopes.
- * I) A proposed seed mixture for the wells in this area is as follows or as defined by BLM in each well's COAs.

Indian ricegrass (Nezpar)	Achnatherum hymenoides	2.0
Squirreltail	Elymus elymoides	2.0
Needle and thread grass	Stipa Comata	2.0
Western wheatgrass	Pascopyrum smithi	2.0
Gooseberryleaf globemallow	Sphaeralcea grossulariifolia	0.5
Palmer penstemon (cedar)	Penstemon palmeri	0.5
Wyoming big sagebrush	Artemisia tridentata ssp. wyomingensis	0.5
Antelope bitterbrush	Purshia Tridentata	1.0
_		10.5

- J) Reclamation will be considered successful if the following criteria are met, or as specified by BLM:
 - · 70 percent of predisturbance cover
 - · 90 percent dominate species *
 - · Erosion features equal to or less than surrounding area
- * The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.

'APIWellNo:43007500190000'

FINAL RESTORATION (P & A – Removal of equipment)

- A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.
- B) If necessary to ensure timely revegetation, the pad will be fenced to BLM standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the Gold Book, 4th Edition, or will be fenced with operational electric fencing.
- C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.
- * D) A proposed seed mixture for the wells in this area is as follows or as defined by BLM in each well's COAs.

Indian ricegrass (Nezpar)	Achnatherum hymenoides	2.0
Squirreltail	Elymus elymoides	2.0
Needle and thread grass	Stipa Comata	2.0
Western wheatgrass	Pascopyrum smithi	2.0
Gooseberryleaf globemallow	Sphaeralcea grossulariifolia	0.5
Palmer penstemon (cedar)	Penstemon palmeri	0.5
Wyoming big sagebrush	Artemisia tridentata ssp. wyomingensis	0.5
Antelope bitterbrush	Purshia Tridentata	1.0
-		10.5

- E) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut & fill slopes.
- F) Distribute topsoil, if any remains, evenly over the location, and seed according to the above seed mixture. If needed the access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- G) All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Resalvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over recontoured cut and fill slopes.
- H) BLM will not release the operator's bond until the area has been successfully reclaimed (evaluation will be made after the first growing season) to the standards of the surface owner or surface management agency.
- I) An above-round tubular metal dry-hole marker will be erected over the drill-hole upon cessation of drilling and/or testing operations. The marker will be inscribed with the operator's name, well number, well location, and federal lease number. Upon request of the surface owner, the casing may be cut off three (3) feet below reclaimed ground surface (or below plow depth) with a metal plate affixed to the top providing the same well information as stated above. This must consist of a piece of pipe not less than four

- inches in diameter and ten fee in length, of which four feet shall be above the general ground level and the remainder being imbedded in cement. The tope of the pipe must be closed by a welded or screw cap, cement or other means.
- J) The Area Manager, Bureau of Land Management, Price Field Office, will be contacted if there are any questions concerning the above rehabilitation stipulations (435) 636-3600 is the BLM contact for this location. All rehabilitation work, including seeding, will be completed by a certified contractor if the well is a dry hole.

11) SURFACE OWNERSHIP

Surface Owner

Drillsite/Access

Bureau of Land Management Price Field Office 125 South 600 West

Price, UT 84501 Phone: 435-636-3600

12) GENERAL INFORMATION

- A) The project area is situated within the Colorado Plateau physiograhic province, in the lowlands that encircle the northern edge of the San Rafael Swell. The Price River drainage (Castle Valley) is located to the west and south of the project area; the Coal Creek drainage is located to the east of the project area, and confluences with the Price River south of the project area near the town of Wellington.
- B) Topographic and geologic features poorly bedded mixture of silt, sand, pebbles, cobbles, and boulders derived from adjacent uplands formed by the Book Cliffs.
- C) Soil characteristics clay loam.
- D) Flora is likely to consist of: Big sagebrush, Juniper, Mormon tea, Four-wing saltbrush, Broom snakeweed (Matchbrush), Crested wheatgrass, Western wheatgrass and Cheatgrass.
- E) Fauna none observed. Typically present: deer, elk, antelope, coyotes, rabbits, birds, and rodents.
- F) Concurrent surface use grazing and hunting.
- G) Mineral Lessor Bureau of Land Management

Price Field Office 125 South 600 West

Price, UT 84501 Phone: 435-636-3600

- H) Proximity of water, occupied dwellings or other features: to be detailed in each well's APD.
- I) Archaeological, cultural and historical information: to be detailed in each well's APD.
- J) Construction activity shall not be conducted using frozen or saturated solid material or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur.
- K) The operator shall be responsible for the prevention and suppression of fires on public lands caused by its employees, contractors or sub-contractors. During conditions of extreme fire danger, surface use operations may be limited or suspended in specific areas.
- L) Unless otherwise exempted, free and unrestricted public access shall be maintained on the lease and associated rights-of-way.

- M) Facilities approved by the Application for Permit to Drill that are no longer included within the lease, due to a change in the lease or unit boundary, shall be authorized with a right-of-way.
- N) Historic, Cultural, and Paleontological Resources

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
- a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the finds of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of the mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible fro mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed the operator will then be allowed to resume construction.

"The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the authorized officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the authorized officer. The authorized officer will evaluate, or will have evaluated, such discoveries not later than five (5) working days after being notified, and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measures to mitigate adverse effects to significant paleontological resources will be made by the authorized officer after consulting with the holder. The holder may be responsible for the cost of any investigations necessary for the evaluation, and for any mitigative measures."

O) Kerr-McGee Oil & Gas Onshore LP maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

LESSEE'S OR OPERATOR'S REPRESENTATIVE(S):

Operator

Rockies Corporate Office:

Kerr-McGee Oil & Gas Onshore, L. P.

Granite Towers at 1099 18th Street, Suite 1800, Denver, CO 80202 (Physical Address) Post Office Box 173779, Denver, CO 80217-3779 (Mailing Address) (720) 929-6000

Jim Kleckner, Vice President, Operations
Reed Scott, General Manager - Permitting and Regulatory Affairs
Ann Puchalski, Senior Geologist
Emile Goodwin, Drilling Engineer
Debby Black, Staff Regulatory Analyst **

Price Field Office:

60 South 700 East, Unit #1 Price, UT 84501 (435) 636-2402

Jim Hartley, Production Superintendent

** Contact with any questions regarding this application

CERTIFICATION:

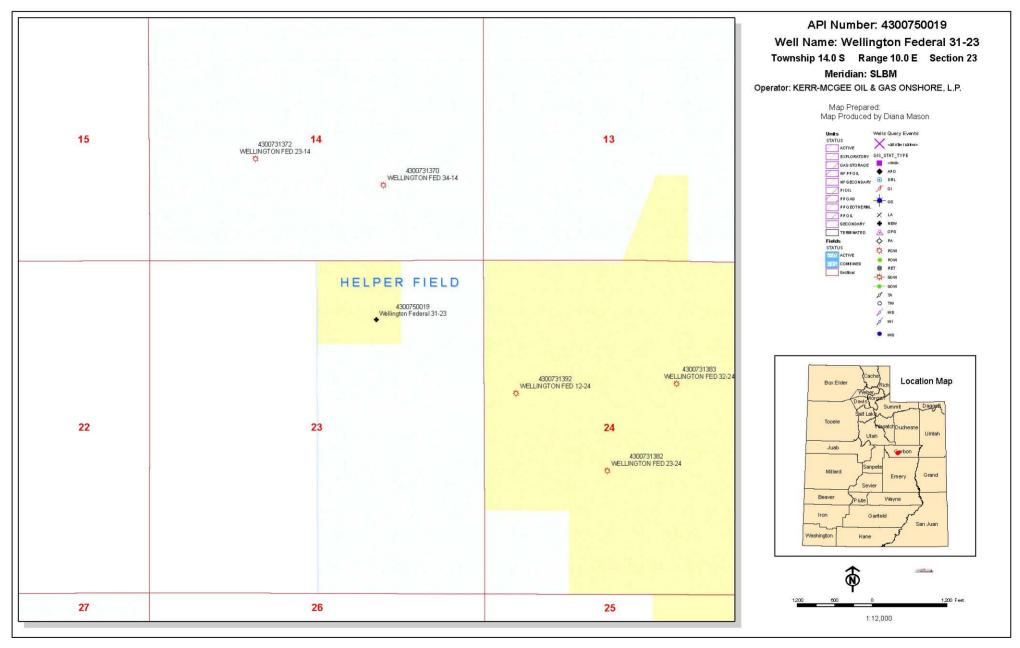
I hereby certify that Kerr-McGee Oil & Gas Onshore LP and its contractors and sub-contractors are responsible for the operations conducted under this application subject to the terms and conditions of the mineral lease. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Kerr-McGee Oil & Gas Onshore LP under their nationwide bond, BLM Bond No. WYB000291.

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Date: April 14, 2009

Staff Regulatory Analyst

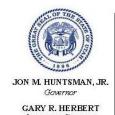
Black



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED:	5/12/2009			API NO. ASSIGNED:	43007500190000
WELL NAME:	Wellington Federal 31	1-23			
OPERATOR:	KERR-MCGEE OIL & C	GAS ONSHOR	E, L.P. (N2995)	PHONE NUMBER:	720 929-6472
CONTACT:	Debby Black				
PROPOSED LOCATION:	NWNE 23 140S 100E			Permit Tech Review:	
SURFACE:	0967 FNL 1730 FEL			Engineering Review:	
воттом:	0967 FNL 1730 FEL			Geology Review:	
COUNTY:	CARBON				
LATITUDE:	39.59832			LONGITUDE:	-110.76452
UTM SURF EASTINGS:	520219.00			NORTHINGS:	4382993.00
FIELD NAME:	HELPER				
LEASE TYPE:	1 - Federal				
LEASE NUMBER:	UTU-084536	PROPOSED	PRODUCING FOR	RMATION(S): FERRON COA	AL
SURFACE OWNER:	1 - Federal			COALBED METHANE:	YES
RECEIVED AND/OR REVIE	WED:	LC	CATION AND SIT	ΓING:	
₽ PLAT			R649-2-3.		
☑ Bond: FEDERAL - WYB	000291		Unit:		
Otash			R649-3-2. Gen	ieral	
Oil Shale 190-5					
Oil Shale 190-3			R649-3-3. Exc	eption	
Oil Shale 190-13			✓ Drilling Unit		
✓ Water Permit: Air Drill	ling - City of Price, UT		Board Cause	No: Cause 241-04	
RDCC Review:			Effective Dat	e: 9/26/2000	
Fee Surface Agreeme	ent		Siting: 460' i	Fr outer bdry u & 920' fr otl	ner wells
Intent to Commingle		Ţ.	R649-3-11. Di	rectional Drill	
Commingling Approved	Ŀ				
Comments: Presite Comments:	ompleted				
Stipulations: 4 - Fede	eral Approval - dmason	1			

API Well No: 43007500190000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Wellington Federal 31-23

API Well Number: 43007500190000 Lease Number: UTU-084536 Surface Owner: FEDERAL Approval Date: 5/14/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 241-04. The expected producing formation or pool is the FERRON COAL Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:

Notify the Division with 24 hours of spudding the well.

• Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7),

API Well No: 43007500190000

Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:

Gil Hunt

Associate Director, Oil & Gas

Til Hut

	STATE OF UTAH DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS, AND N	273	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER:		
	UTU-0				
82 AZAZ XWARA 1900	RY NOTICES AND REPORT			6. IF IN	DIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposition-hole depth, reenter plu DRILL form for such proposals.	sals to drill new wells, significantly deep Igged wells, or to drill horizontal laterals	en exist s. Use A	ting wells below current PPLICATION FOR PERMIT TO	7.UNIT	or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well					- NAME and NUMBER: gton Federal 31-23
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.			PER 100 (00 (00 (00 (00 (00 (00 (00 (00 (00	NUMBER: 500190000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 8021 7 3 7		PHONE NUMBER: 30 7-7 52-1169 Ext		O and POOL or WILDCAT: R
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0967 FNL 1730 FEL				COUNT	
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNE Section: 23	P, RANGE, MERIDIAN: Township: 14.0S Range: 10.0E Meridia	n: S		STATE: UTAH	
11. CHE	CK APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPORT,	OR OTH	HER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
1.50	ACIDIZE		ALTER CASING		CASING REPAIR
NOTICE OF INTENT Approximate date work will starti 5/12/2010	☐ CHANGE TO PREVIOUS PLANS		CHANGE TUBING		CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS		CONVERT WELL TYPE
SUBSEQUENT REPORT	☐ DEEPEN		FRACTURE TREAT		NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE		PLUG AND ABANDON		PLUG BACK
X	PRODUCTION START OF RESUME		RECLAMATION OF WELL SITE		RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spudi	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL		TEMPORARY ABANDON
	☐ TUBING REPAIR		VENT OR FLARE		WATER DISPOSAL
☐ DRILLING REPORT	☐ WATER SHUTOFF	\square :	SI TA STATUS EXTENSION	1	APD EXTENSION
Report Date:	☐ WILD CAT WELL DETERMINATION		OTHER	отн	ERI
	MPLETED OPERATIONS. Clearly show all			volumes,	etc.
Kerr-McGee wishes	to extend this APD. Nothing	has d	changed since original	Л	pproved by the
	filing.				Jtah Division of
					, Gas and Mining
			<u></u>	1140	10 11 111
			D	ate:_	May 03, 2010
			E	v: D	alsofill
NAME (PLEASE PRINT) Gina Becker	PHONE NUMB 720 929-6086	ER	TITLE Regulatory Analyst II		
SIGNATURE N/A			DATE 4/2 7 /2010		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43007500190000

API: 43007500190000

Well Name: Wellington Federal 31-23

Location: 0967 FNL 1730 FEL QTR NWNE SEC 23 TWNP 140S RNG 100E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 5/14/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

re remaining to a concentration of the appropriate of the appropriate of the concentration of
If located on private land, has the ownership changed, if so, has the surface agreement been updated? 📵 Yes 📵 No
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? (Yes (No
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? 🔘 Yes 🌘 No
Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? 📵 Yes 📵 No
· Has the approved source of water for drilling changed? 🔘 Yes 🌘 No
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? 📵 Yes 📵 No
Approved by the 'Is bonding still in place, which covers this proposed well? Yes No Utah Division of

Signature: Gina Becker **Date:** 4/27/2010

Title: Regulatory Analyst II Representing: KERR-MCGEE OIL & GAS ONSHORTE: P. May 03, 2010

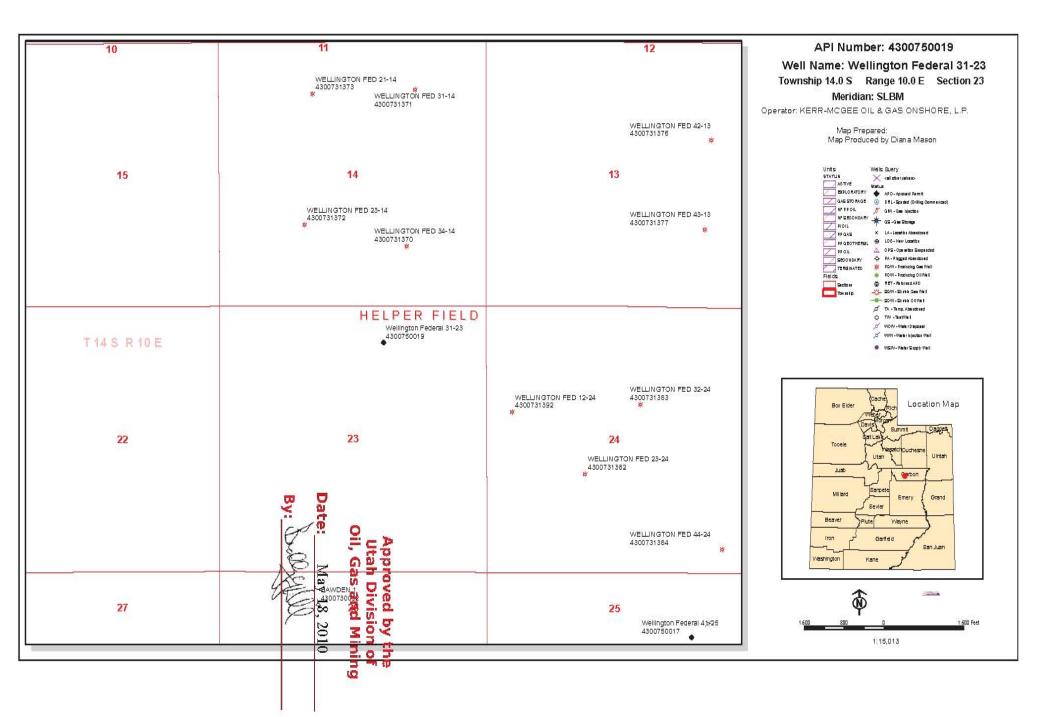
Bv:

Oil, Gas and Mining

Federal Approval of this Action is Necessary

API Well No: 43007500190000

	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ	IG	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-084536			
SUNDI	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	7.UNIT or CA AGREEMENT NAME:					
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: Wellington Federal 31-23			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43007500190000			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 307-752-1169 Ext	9. FIELD and POOL or WILDCAT: HELPER			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0967 FNL 1730 FEL			COUNTY: CARBON			
QTR/QTR, SECTION, TOWNSH: Qtr/Qtr: NWNE Section: 23	IP, RANGE, MERIDIAN: 3 Township: 14.0S Range: 10.0E Meridian: S		STATE: UTAH			
CHE	CK APPROPRIATE BOXES TO INDICATE I	NATURE OF NOTICE, REPORT,	OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
_	☐ ACIDIZE ☐	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
5/21/2010	☐ CHANGE WELL STATUS ☐	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN ☐	FRACTURE TREAT	NEW CONSTRUCTION			
Date of work completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT Report Date:	☐ WATER SHUTOFF ☐	SI TA STATUS EXTENSION	APD EXTENSION			
Supplement - American St. 200 (Mills Chile)	☐ WILD CAT WELL DETERMINATION ✓	OTHER	OTHER: Location Change			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee wishes to change the location of this well. New plat is attached. From: Footages: 967' FNL, 1730' FEL Elevation: 5692' Latitude: 39.598285 Longitude: -110.765257 To: Footages: 746' FNL, 2074" FEL Elevation: 5695' Latitude: 39.598892 Longitude: -110.766480 Date: May 18, 2010 By:						
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II				
SIGNATURE N/A		DATE 5/13/2010				



Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT **SUNDRY NOTICES AND REPORTS ON WELLS**

Expires: July 31, 2010 5. Lease Serial No.

UTU84536

		_	4.0		 8 6.08	T 11	
	411		00000	0.000	 		

FORM APPROVED

OMB NO. 1004-0135

Do not use thi abandoned wel	6. If Indian, Allottee or Tribe Name					
SUBMIT IN TRII	PLICATE - Other instruc	ctions on reve	erse side.		7. If Unit or CA/Agreemen	t, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☑ Oth					8. Well Name and No. WELLINGTON FEDER	RAL 31-23
 Name of Operator KERR-MCGEE OIL & GAS Of 	Contact: NSHOR⊞-Mail: gina.becke	GINA T BECh er@anadarko.co	(ER m		9. API Well No. 43-007-50019	
3a. Address 1099 18TH STREET SUITE 1 DENVER, CO 80202	800	3b. Phone No. Ph: 720-929 Fx: 720-929	(include area code) 9-6086 -7086	Ó	10. Field and Pool, or Expl CARDINAL DRAW	oratory
4. Location of Well <i>(Footage, Sec., T.</i> Sec 23 T14S R10E NWNE 74 39.59889 N Lat, 110.76648 W	6FNL 2074FEL	,			11. County or Parish, and S CARBON COUNTY	
12. CHECK APPR	ROPRIATE BOX(ES) TO	O INDICATE	NATURE OF N	NOTICE, RE	EPORT, OR OTHER D	ATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
■ Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Ope If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fix Kerr-McGee wishes change the From: Footages: 967' FNL, 17 Elevation: 5692' Latitude: 39.598285 Longitude: -110.765257 To: Footages: 746' FNL, 2076 Elevation: 5695' Latitude: 39.598892 Longitude: -110.766480	ally or recomplete horizontally, k will be performed or provide operations. If the operation re andonment Notices shall be fil inal inspection.) ne location of this well. Not 30' FEL	□ New □ Plug □ Plug nt details, includingive subsurface lethe Bond No. on sults in a multipleded only after all r	cure Treat Construction and Abandon Back ng estimated starting ocations and measur file with BLM/BIA e completion or reco- equirements, include	Reclama Recomp Tempor Water D g date of any pr red and true ve Required sub	ation lete arily Abandon bisposal roposed work and approximate rical depths of all pertinent resequent reports shall be filed lew interval, a Form 3160-4 servers.	narkers and zones. within 30 days hall be filed once
14. I hereby certify that the foregoing is Name (Printed/Typed) GINA T BE	Electronic Submission # For KERR-MCGI	#86391 verified EE OIL & GAS	OŃSHORE, sent	Information to the Moab		
- and a made appear OHYA I DI			THE THE STATE OF T	ALORI AW	3210111	
Signature (Electronic S	anara anara manara minara		Date 05/12/20	Address (A)		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	Т
Approved By			Title			Date

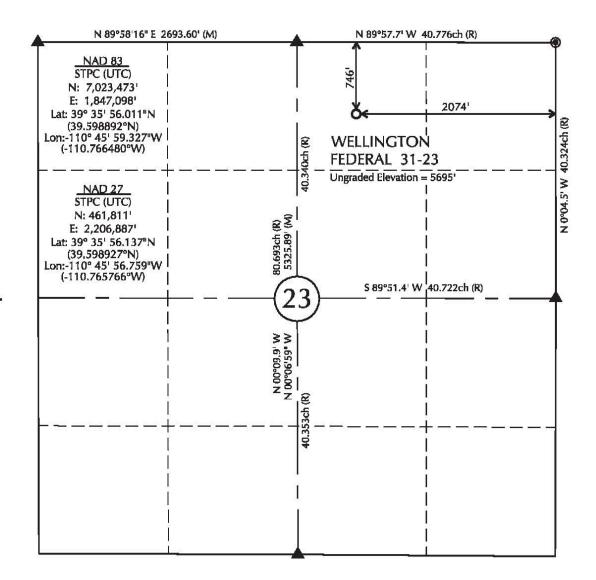
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease

which would entitle the applicant to conduct operations thereon.

Office

R. 10 E.





THIS IS TO CERTIFY THAT THE ABOVE PLATED OF PREPARED FROM FIELD NOTES OF ACTURE PLAYERS THE PROPERTY OF A PROPERTY OF A PROPERTY OF THE PROPER

REGISTERED LAND SURVEYOR REGISTRATION No. 7263818 STATE OF UTAH BENJAMIN JAY
REEMBERS
PROFESSIONAL
ROOM
No.
7263818

KERR-MCGEE OIL & GAS ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202

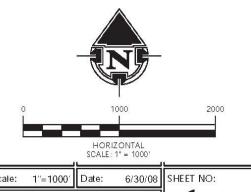
WELLINGTON FEDERAL 31-23
WELL PLAT
746' FNL, 2074' FEL
NW1/4NE1/4, SECTION 23, T.14S., R.10E.
S.L.M., CARBON COUNTY, UTAH



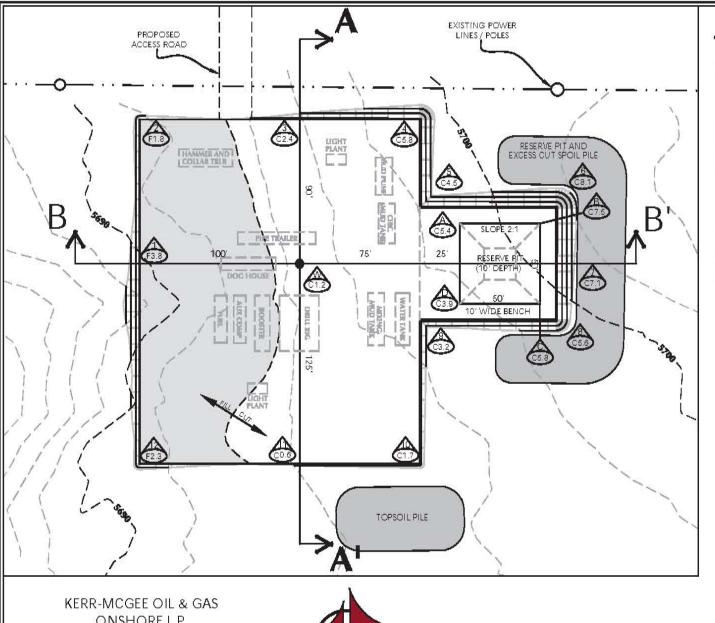
CONSULTING, LLC 371 Coffeen Avenue Sheridan WY 92901 Phone 307-674-0609 Fax 307-674-0182

NOTES

- 1. A INDICATES FOUND BLM BRASS CAP
- 2. OINDICATES CALCULATED CORNER POSITION FROM RECORD
- 3. ELEVATION BASED NAVD88 (GEOID03)
- 4. BASIS OF BEARING IS WGS84
- 5. ALL COORDINATES DERIVED FROM AUTONOMOUS GPS SURVEY



| Scale: 1"=1000" | Date: 6/30/08 | SHEET NO: | SEA | REVISED: 5/10/2010 | 1 OF 9



WELL PAD LEGEND

WELL LOCATION

EXISTING CONTOURS (2' INTERVAL) PROPOSED CONTOURS (2' INTERVAL)

WELL PAD 31-23 QUANTITIES

EXISTING GRADE @ LOC. STAKE = 5,694.7' FINISHED GRADE ELEVATION = 5,693.5" CUT SLOPES = 1.5:1 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 2,631 C.Y. TOTAL FILL FOR WELL PAD = 1,307 C.Y. TOPSOIL @ 6" DEPTH = 900 C.Y. TOTAL DISTURBANCE = 1.12 ACRES SHRINKAGE FACTOR = 1.15 SWELL FACTOR = 1.00 TOTAL PIT CAPACITY +/- 1,850 BARRELS TOTAL PIT VOLUME +/- 482 CY

ONSHORE L.P.

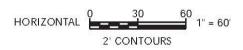
1099 18th Street - Denver, Colorado 80202

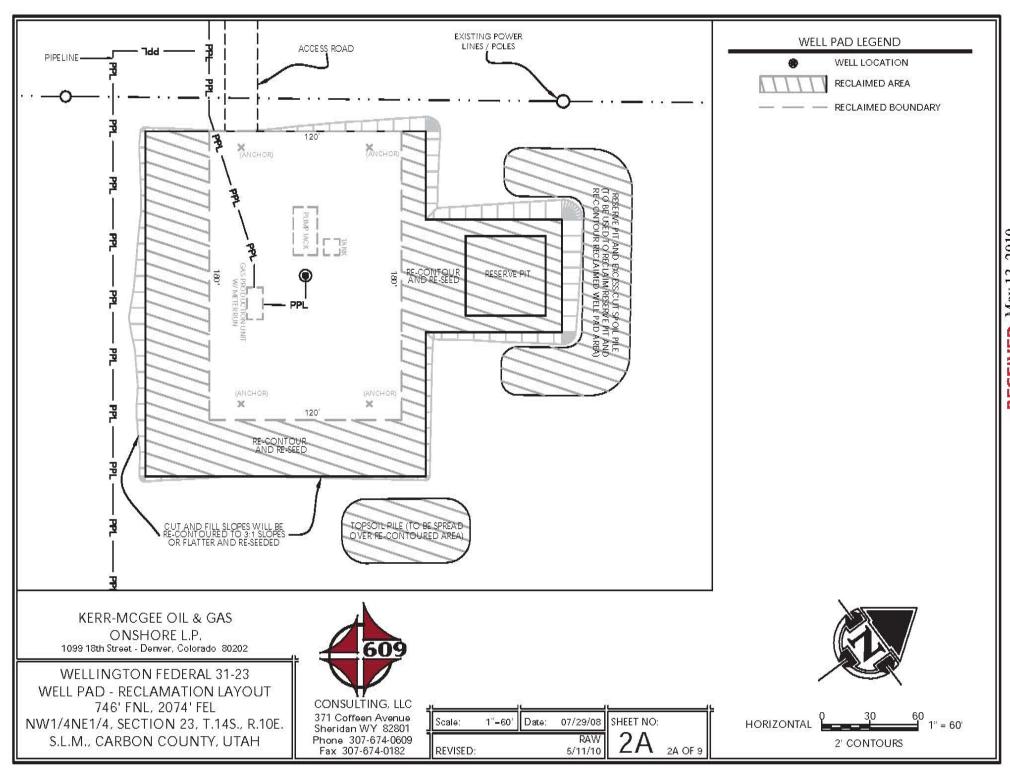
WELLINGTON FEDERAL 31-23 WELL PAD - LOCATION LAYOUT 746' FNL, 2074' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH

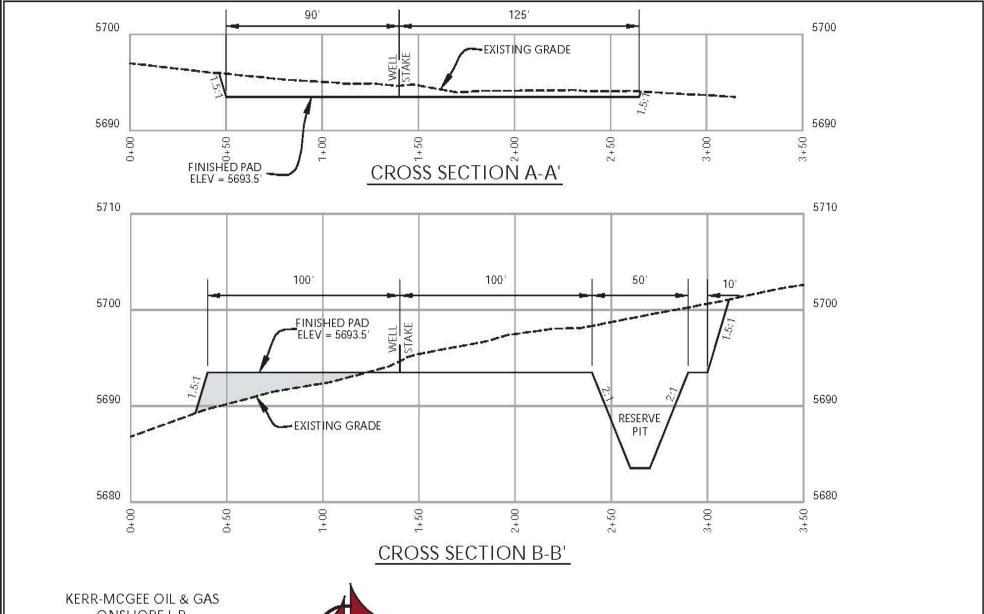


	SHEET NO:	07/29/08	Date:	1"-60"	Scale:
	2	RAW			LINAMANA JALAH ZIZI ZIMA Z
2 OF 9	_	5/11/10			REVISED:







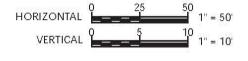


ONSHORE L.P. 1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23 **WELL PAD - CROSS SECTIONS** 746' FNL, 2074' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH



Scale:	1"-50"	Date:	07/29/08	SHEET NO:	
REVISED:			RAW 5/11/10	3	3 OF 9





PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE WEST



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE NORTH

KERR-MCGEE OIL & GAS ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202



L				i	
Scale:	NTS	Date:	07/29/08	SHEET NO:	
REVISED:			05/11/10	4	4 OF 9



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE SOUTH



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE EAST

KERR-MCGEE OIL & GAS
ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202



14		L		IL	
Scale:	NTS	Date:	07/29/08	SHEET NO:	
REVISED:			05/11/10	4A	4A OF 9



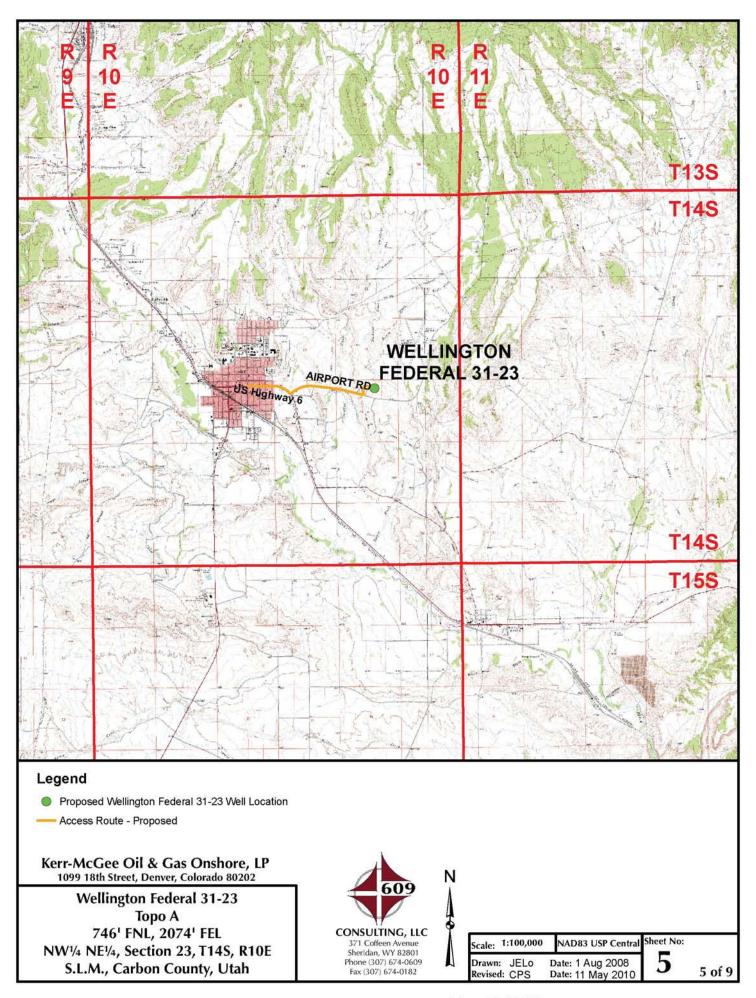
PHOTOGRAPH OF PROPOSED ACCESS INTO THE WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE NORTHWEST

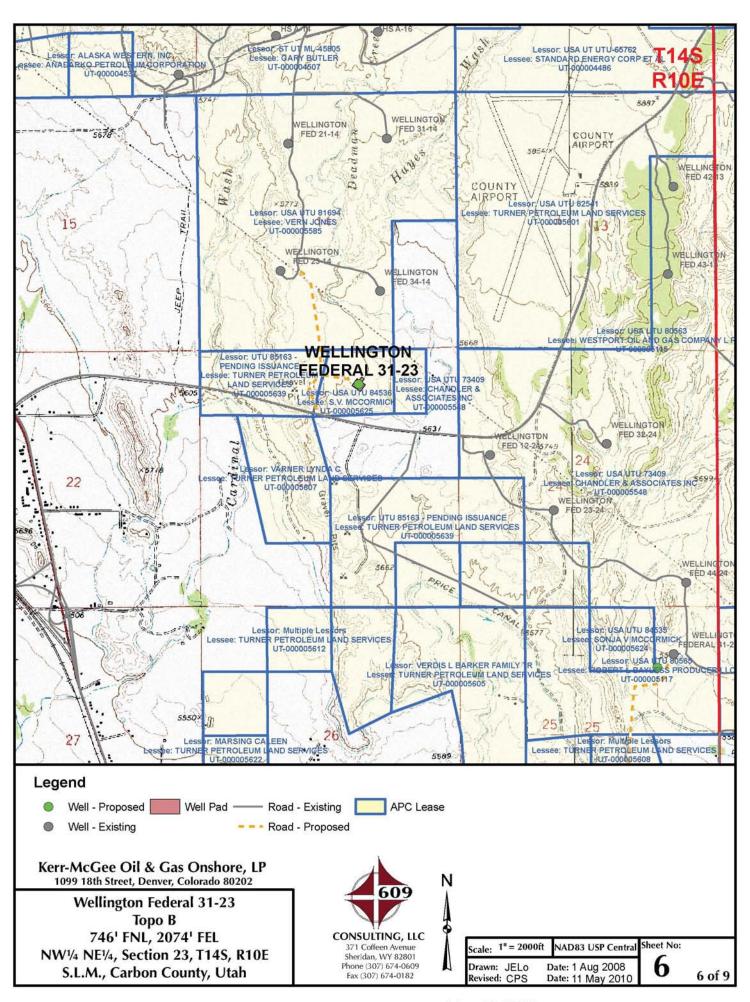
KERR-MCGEE OIL & GAS ONSHORE L.P.

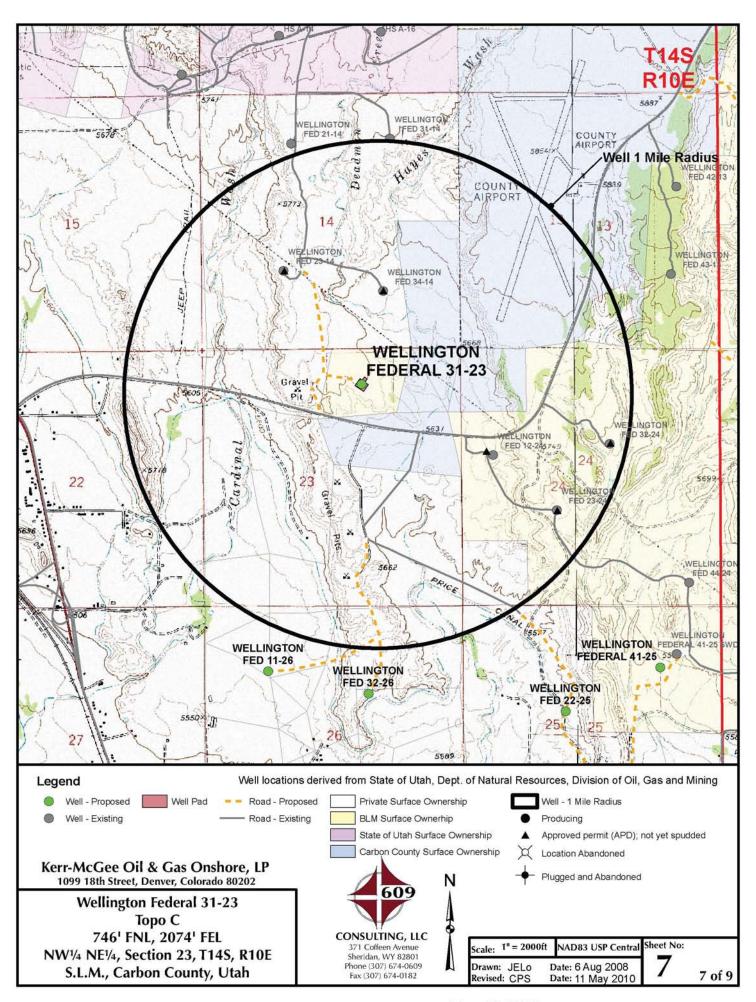
1099 18th Street - Denver, Colorado 80202

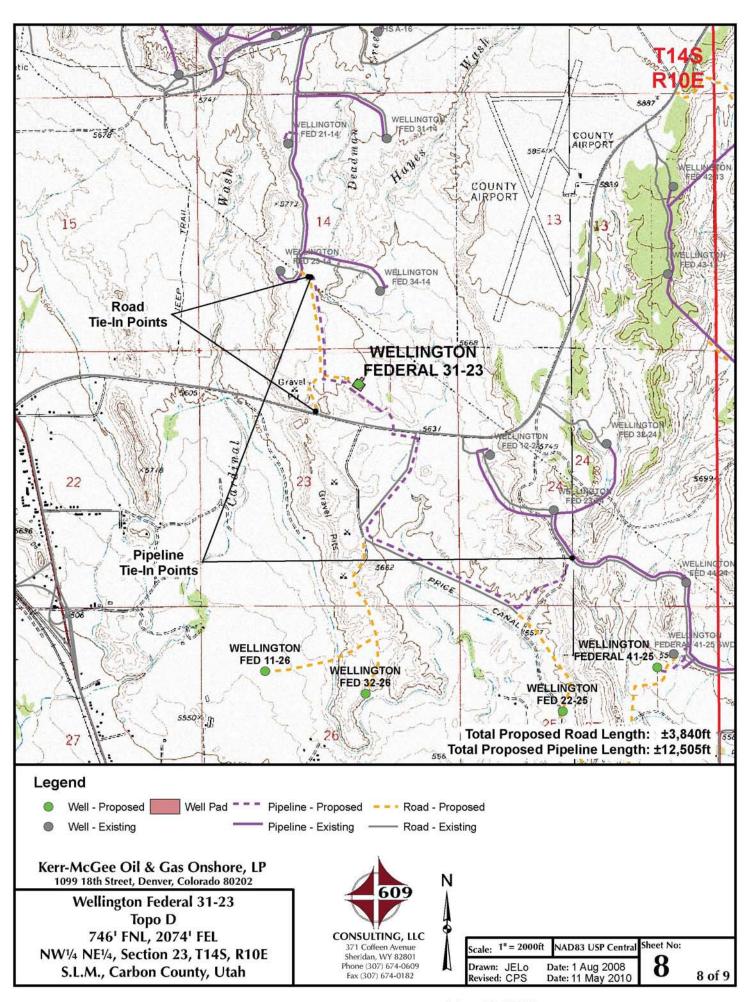


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]	Scale:	NTS	Date:	07/29/08	SHEET NO:	
1	REVISED:			05/11/10	4B	4B OF 9









Kerr-McGee Oil & Gas Onshore, LP WELLINGTON FEDERAL 31-23 SECTION 23, T14S, R10E, S.L.M.

Proceed in an easterly direction from Price, Utah, along U.S. Highway 6, gradually changing to southerly, approximately 0.8 miles to the junction of Airport Road. Exit left and proceed in an easterly direction approximately 1.2 miles to the junction of Airport Road and the proposed access road to the Wellington Federal 21-23 and Wellington Federal 31-23, to the north. Exit left and proceed in a northerly direction following the road flags, approximately 0.1 miles to the junction of this road and the beginning of proposed access road to the Wellington Federal 31-23 to the east. Turn right and proceed in an easterly direction; following the road flags approximately 0.1 miles to the junction of this road and the proposed Wellington Federal 31-23 well location.

Total distance from Price, Utah, to the proposed Wellington Federal 31-23 well location is approximately 2.2 miles.

	STATE OF UTAH DEPARTMENT OF NATURAL RESOUR	rCES		FORM 9
	DIVISION OF OIL, GAS, AND M		3	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-084536
SUNDI	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for propo bottom-hole depth, reenter plu DRILL form for such proposals	sals to drill new wells, significantly deepo ugged wells, or to drill horizontal laterals	en exist . Use Al	ting wells below current PPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: Wellington Federal 31-23
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.			9. API NUMBER: 43007500190000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 80217 377		PHONE NUMBER: 307-752-1169 Ext	9. FIELD and POOL or WILDCAT: HELPER
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0746 FNL 2074 FEL				COUNTY: CARBON
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNE Section: 23	IP, RANGE, MERIDIAN: 3 Township: 14.0S Range: 10.0E Meridian	n: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
,	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: 5/28/2010	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
5/28/2010	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	☐ DEEPEN	□ F	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	□ r	PLUG AND ABANDON	☐ PLUG BACK
	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	☐ TUBING REPAIR		VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILD CAT WELL DETERMINATION	✓ (OTHER	other: Cement Change
Kerr-McGee wishes to for the well listed .25lb/sack Superflake	ompleted operations, clearly show all p o change the cement type th I on the attachment: From: (e mixed at 15.6 ppg. To: Dad + .25lb/sack Polyflake mixe	at wa Class cotah	as previously approved "G" + 2% CaCl2 + Type III Cement + 2%	Accepted by the
Caciz	1 .251D/3dck 1 olyflake fflixe	u uc		Holosoft Commission of Statement Commission
			Da	ate: June 07, 2010
			D'	Ust Klunt
			D'	y:
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBI 720 929-6086	ER	TITLE Regulatory Analyst II	
SIGNATURE N/A			DATE 5/28/2010	

RECEIVED May 28, 2010

Form 3160- 5 (August, 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004- 0137

Date

	BUREAU OF LAND	MANAGEMENT		I	Expires: July 31, 2010
OUN	DDV NOTICES AND	DEPORTS ON W	ELIC	Lease Serial 1	
	DRY NOTICES AND t use this form for propo			6 If Indian Alle	Muliple Leases ottee, or Tribe Name
abando	o, ir mdian, Alie	N/A			
SUBMIT IN T	RIPLICATE - Other Ins	tructions on page 2.		7. If Unit or CA	. Agreement Name and/or No.
Type of Well Oil Well	Other			8. Well Name a	nd No.
Name of Operator	1			Cardin	al Draw 2010 Program
Kerr-McGee Oil & Gas Onshore	e, L.P.			9. API Well No	
3a, Address		3b. Phone No. (inche	de area code)		
1099 18th Street, Suite 1800 Denver, Colorado 80202		720-92	9-6086		ted on Attachment ool, or Exploratory Area
4. Location of Well (Footage, Sec., T.,	R M or Survey Description)			- Tient and T	N/A
21 & 28 of T	STATE OF THE PROPERTY OF THE P	7, 19, 20 & 30 of T14	S-R11E	11. County or P	
Sections 23 of T14				Carb	on Utah
12. CHECK APPROP	RIATE BOX(S) TO INDI	CATE NATURE OF	NOTICE, REP	ORT, OR OTHE	R DATA
TYPE OF SUBMISSION		TY	PE OF ACTION	I	
X Notice of Intent	Aeidize	Deepen	Production	(Start/ Resume)	Water Shut-off
	A Control National States	Fracture Treat	Reclamatic		Well Integrity
	Altering Casing	=	Ħ		
Subsequent Report	Casing Repair	New Construction	Recomplet	е	X Other
	Change Plans	Plug and abandon	Temporari	y Abandon	Cement Change
Final Abandonment Notice	Convert to Injection	Plug back	Water Disp	oosal	
13. Describe Proposed or Completed of If the proposal is to deepen direct Attach the Bond under which the following completion of the involvesting has been completed. Final determined that the site is ready for the involvesting has been completed.	tionally or recomplete horizonta work will performed or provide ed operations. If the operation Abandonment Notice shall be	illy, give subsurface location the Bond No. on file with results in a multiple complete.	ns and measured a the BLM/ BIA. I etion or recompleti	and true vertical dep Required subsequent on in a new interval	oths or pertinent markers and sand reports shall be filed within 30 da l, a Form 3160-4 shall be filed on
Kerr-McGee wishes to ch	nange the cement type the	hat was previously a	pproved for the	ne well listed o	n the attachment:
From:		To:			
Class "G" + 2% C mixed at 15.6 ppg	aCl2 + .25lb/sack Super.		Type III Cer t 14.8 ppg.	nent + 2% CaC	212 + .25lb/sack Polyflake
14. Thereby certify that the foregoing is	true and correct.				
Name (Printed Typed)		Title			
Gina	Becker	Title		Regulatory A	
Signature	Bed	Date		May 27, 2	2010
	THIS SPACE FO	OR FEDERAL OR S	TATE OFFIC	E USE	

certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

Approved by

Conditions of approval, if any are attached. Approval of this notice does not warrant or

GOV_LEASE_NO43	API_UWI_NO3	WELL_NAME4	STATE9	SECTION11	TOWNSHIP12	RANGE13	COUNTY_NAME38
UTU-80554	4300750003	NORTH BENCH FEDERAL 14-21	UT	21	13	11	CARBON
UTU-80557	4300750008	NORTH BENCH FEDERAL 21-28	UT	28	13	11	CARBON
UTU-80557	4300750009	NORTH BENCH FEDERAL 41-28	UT	28	13	11	CARBON
UTU-84536	4300750019	WELLINGTON FEDERAL 31-23	UT	23	14	10	CARBON
UTU-73409	4300750010	WELLINGTON FEDERAL 22-17	UT	17	14	11	CARBON
UTU-73409	4300750011	WELLINGTON FEDERAL 23-17	UT	17	14	11	CARBON
UTU-80563	4300750016	WELLINGTON FEDERAL 23-19	UT	19	14	11	CARBON
UTU-80563	4300750014	WELLINGTON FEDERAL 33-19	UT	19	14	11	CARBON
UTU-80563	4300750013	WELLINGTON FEDERAL 12-20	UT	20	14	11	CARBON
UTU-80565	4300750018	WELLINGTON FEDERAL 21-30	UT	30	14	11	CARBON

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Cor	mpany:	<u>KERR</u>	-McGEI	E OIL	& GAS O	NSHORE	, L. P.	
Well Name	•	V	VELLIN	<u>GTOI</u>	N FEDERA	L 31-23		
Api No:	43-007-500)19		L	ease Type	FEDE	RAL	
Section 23	Township_	14S	_Range_	10E	_County	CAR	BON	
Drilling Cor	ntractor	PEN	SE BRO	THEI	RS DRLG	RIG #_	19	
SPUDDE	D:							
	Date	07/0	8/2010					
	Time	12:0	0 NOON	1				
	How	DRY	<u> </u>					
Drilling wi	II Commen	ce:						
Reported by	C		LEVI	HAN	СОСК			
Telephone #			(970)	379-0	0656			
Date	07/08/2010	S	igned	CF	łD			

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND M		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-084536
A 1000 Cod 1000	RY NOTICES AND REPORT		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepe ugged wells, or to drill horizontal laterals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: Wellington Federal 31-23
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43007500190000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	P treet, Suite 600, Denver, CO, 80217 377	HONE NUMBER: 79 307-752-1169 Ext	9. FIELD and POOL or WILDCAT: HELPER
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0746 FNL 2074 FEL			COUNTY: CARBON
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNE Section: 23	IP, RANGE, MERIDIAN: 3 Township: 14.0S Range: 10.0E Meridiar	n: S	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDIC	ATE NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start.	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
*	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud: 7/7/2010	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
-,-,	☐ TUBING REPAIR	☐ VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	APD EXTENSION
(26.5.700 (40.00))	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Spud
The following well	ompleted operations. Clearly show all plas Spud on 07/07/2010 @ beration Summary Report. T	5:35am. Attached is the hank you. Oi	Accepted by the Utah Division of I, Gas and Mining RECORD ONLY
NAME (PLEASE PRINT) Emily Carrender	PHONE NUMBE 720 929-6282	R TITLE Operations Specialist I	
SIGNATURE	20 525 0202	DATE	
N/A		7/12/2010	

			STATE OF U EPARTMENT OF NATUR VISION OF OIL, GA	AL RESOUR				FOR	
			ENTITY ACTIO	N FORM					
Operator:	Kerr-M	lcGee Oil & Gas Onsho	ore, LP.	Ope	erator A	ccount N	umber:	N 2995	
ddress:	1594 V	Vest North Temple		·					
	city Sa	It Lake City							
	state ^l	JT	_{zip} 84116		ŧ	Phone No	ımber: ˌ	(720) 929-6282	
Well 1									
API Nu			Name	QQ	Sec	Twp	Rng	County	
430075	50019	Wellington Federal	<i>31-23</i>	NWNE	23	148	10E	Carbon	
Action	Code	Current Entity Number	New Entity Number						itity Assignment Effective Date
A		99999	17680	7/7/2010			7/20/10		
Veli 2	RNC								
AP! Nu	mber	Well	Name	QQ	Sec	Twp	Rng	County	
Action	Code	Current Entity Number	New Entity Number	S	pud Da	te		tity Assignment Effective Date	
Comment	s:								
Well 3									
API Nu	mber	Well	Name	QQ	Sec	Twp	Rng	County	
Action	Code	Current Entity Number	New Entity Number	S	pud Dat	te		ity Assignment ffective Date	

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		ity Assignment ffective Date
Comments:							

RECEIVED

ACT	TION	CO	DES:

JUL 1 3 2010

A - Establish new entity for new well (single well only)

Emily Carrender

- Add new well to existing entity (group or unit well). OF OIL, GAS & MININGame (Please Print).
- Re-assign well from one existing entity to another existing entity
- Re-assign well from one existing entity to a new entity
- Other (Explain in 'comments' section)

Signature Operation Specialist i

7/12/2010

Title

Date

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPRO	VED
OMB NO. 1004	-0135
Evnires: July 21	2016

Do not use th	SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.						
	PLICATE - Other instruc				7. If Unit or CA/Agree	ement, Name and/or No.	
1. Type of Well Gas Well 🖸 Otl	8. Well Name and No. WELLINGTON FE	DERAL 31-23					
2. Name of Operator KERR-MCGEE OIL & GAS O	Contact: NSHORŒ-Mail: gina.becke	GINA T BE er@anadarko.	CKER .com		9. API Well No. 43-007-50019		
3a. Address 3b. Phone No. (include area code) 1099 18TH STREET SUITE 1800 Ph: 720-929-6086 DENVER, CO 80202 Fx: 720-929-7086					10. Field and Pool, or CARDINAL DRA		
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish, a	nd State	
Sec 23 T14S R10E NWNE 746FNL 2074FEL 39.59889 N Lat, 110.76648 W Lon					CARBON COUN	ITY, UT	
12. CHECK APPI	ROPRIATE BOX(ES) TO) INDICAT	E NATURE OF N	NOTICE, RE	PORT, OR OTHER	R DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
■ Notice of Intent	☐ Acidize	☐ De	-	_	on (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	_	cture Treat	☐ Reclama		☐ Well Integrity	
☐ Final Abandonment Notice	Casing Repair	_	w Construction	☐ Recompl		☑ Other	
I Final Abandonment Notice	☐ Change Plans ☐ Convert to Injection		g and Abandon	-	rarily Abandon		
12 Describe Proposal of Complete Comple		_	g Back	☐ Water Di	•		
13. Describe Proposed or Completed Ope If the proposal is to deepen directiona Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for final	lly or recomplete horizontally, and the performed or provide operations. If the operation resumment Notices shall be file	give subsurface the Bond No. c ults in a multir	e locations and measur on file with BLM/BIA, ale completion or reco	ed and true vert Required subs	tical depths of all pertine equent reports shall be firm www.interval a Form 3160	nt markers and zones. iled within 30 days -4 shall be filed once	
Kerr-McGee wishes change th	e location of this well. Ne	w plat packa	ige is attached.				
From: Footages: 967' FNL, 173 Elevation: 5692' Latitude: 39.598285 Longitude: -110.765257	30' FEL						
To: Footages: 746' FNL, 2074 Elevation: 5695' Latitude: 39.598892 Longitude: -110.766480	" FEL				.*		
14. I hereby certify that the foregoing is t	Electronic Submission #8	6391 verifie E OIL & GAS	l by the BLM Well I ONSHORE, sent t	nformation S o the Moab	ystem		
Name (Printed/Typed) GINA T BE	CKER		Title REGULA	TORY ANAL	YST II		

			BLM Well Information System DRE, sent to the Moab	
Name (Printed/T	yped) GINA T BECKER	Title	REGULATORY ANALYST II	
Signature	(Electronic Submission)	Date	05/12/2010	
	THIS SPACE FO	OR FEDERAL OR	STATE OFFICE USE	
	Men 101 a s			

Marvin Huuluder Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Petroleum Engineer Title

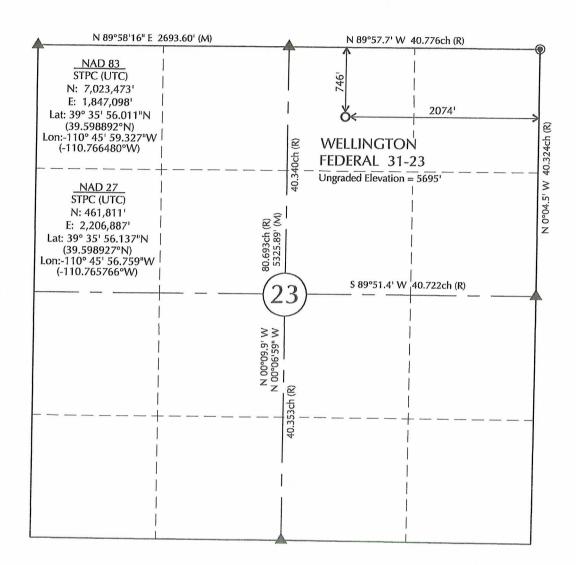
MAY 1 7 2010

PRICE FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Office

R. 10 E.





THIS IS TO CERTIFY THAT THE ABOVE PLATERYS OF UTAND THAT THE ABOVE PLATERYS OF UTAND THAT THE ABOVE PLATERYS OF UTAND THAT THE AME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Denjumin REGISTERED LAND SURVEYOR REGISTRATION No. 7263818 STATE OF UTAH

REENDERS

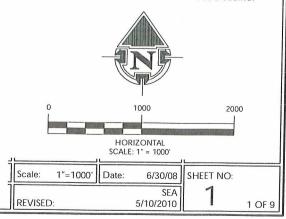
KERR-MCGEE OIL & GAS ONSHORE L.P.

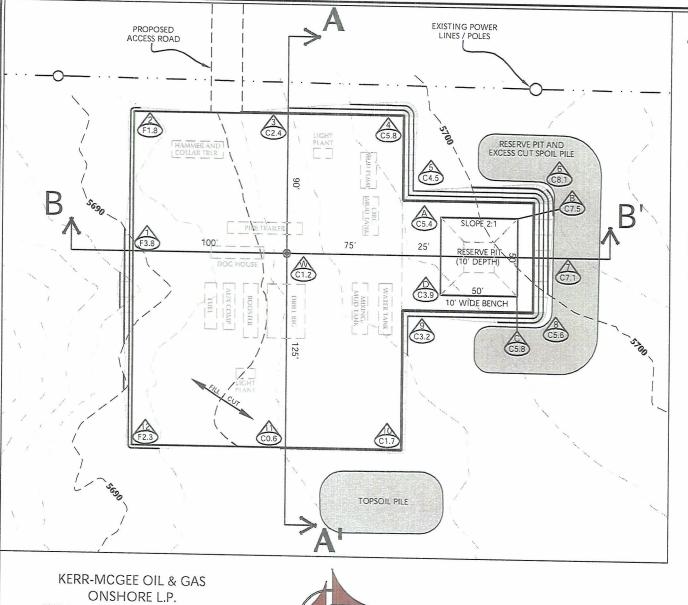
1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23 WELL PLAT 746' FNL, 2074' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH



- ▲ INDICATES FOUND BLM BRASS CAP
- 2. OINDICATES CALCULATED CORNER POSITION FROM RECORD
- 3. ELEVATION BASED NAVD88 (GEOID03)
- 4. BASIS OF BEARING IS WGS84
- 5. ALL COORDINATES DERIVED FROM AUTONOMOUS GPS SURVEY





WELL PAD LEGEND



WELL LOCATION EXISTING CONTOURS (2' INTERVAL) PROPOSED CONTOURS (2' INTERVAL)

WELL PAD 31-23 QUANTITIES

EXISTING GRADE @ LOC. STAKE = 5.694 7' FINISHED GRADE ELEVATION = 5,693.5' CUT SLOPES = 1.5:1 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 2,631 C.Y. TOTAL FILL FOR WELL PAD = 1,307 C.Y. TOPSOIL @ 6" DEPTH = 900 C.Y. TOTAL DISTURBANCE = 1.12 ACRES SHRINKAGE FACTOR = 1.15 SWELL FACTOR = 1.00 TOTAL PIT CAPACITY +/- 1,850 BARRELS TOTAL PIT VOLUME +/- 482 CY

1099 18th Street - Denver, Colorado 80202

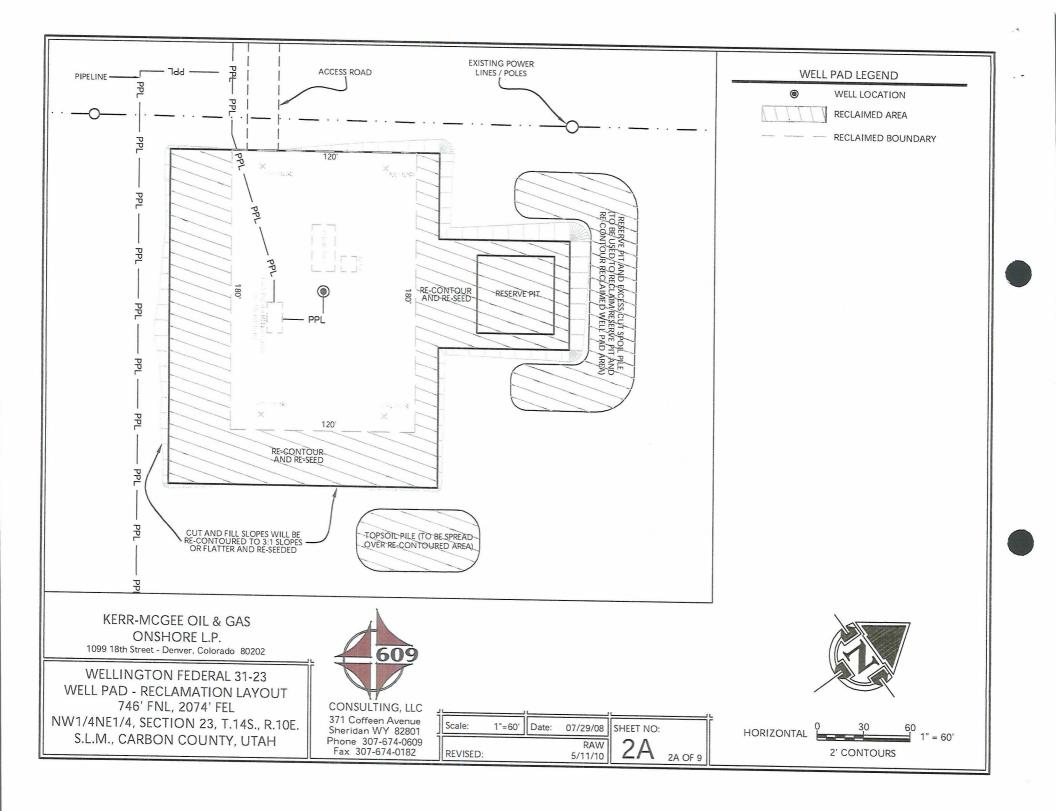
WELLINGTON FEDERAL 31-23 WELL PAD - LOCATION LAYOUT 746' FNL, 2074' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH

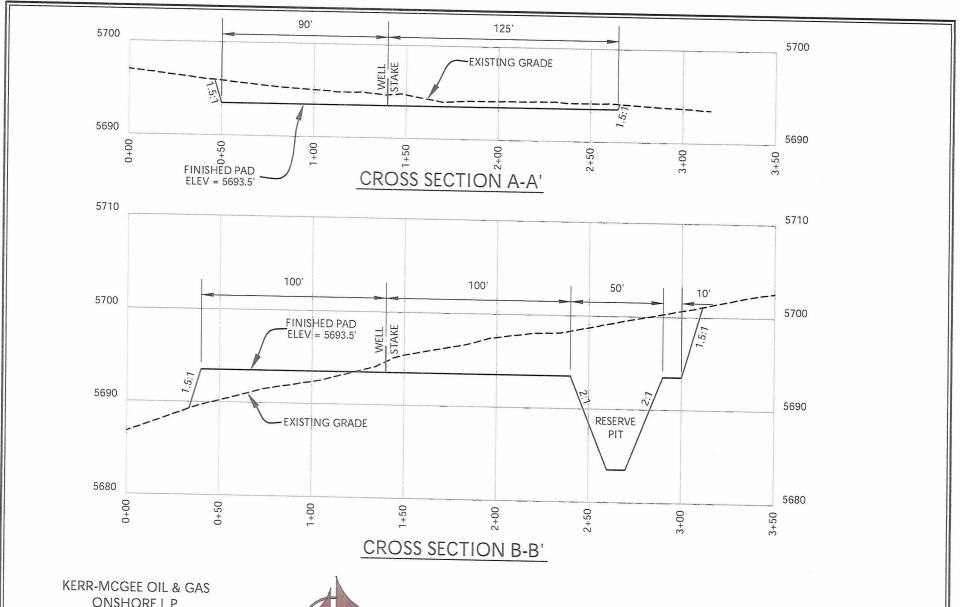


Scale:	1"=60'	Date:	07/29/08	SHEET NO:	
REVISED:			RAW 5/11/10	2	2 OF 9









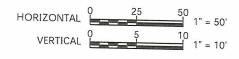
ONSHORE L.P.

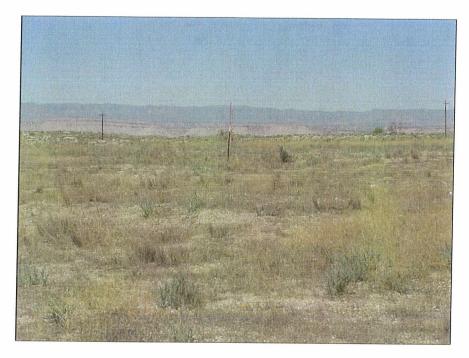
1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23 WELL PAD - CROSS SECTIONS 746' FNL, 2074' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH

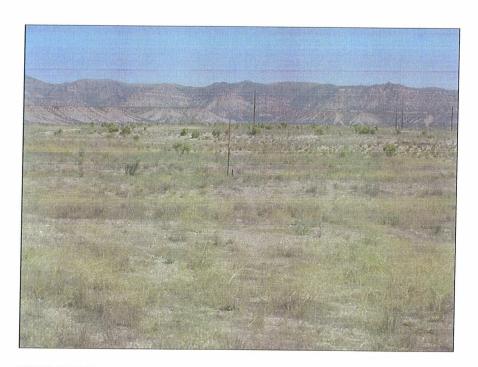


Scale:	1"=50'	Date:	07/29/08	SHEET NO:	
REVISED:			RAW 5/11/10	3	3 OF 9





PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE WEST



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE NORTH

KERR-MCGEE OIL & GAS ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202

WELLINGTON FEDERAL 31-23 LOCATION PHOTOGRAPHS 746' FNL, 2074' FEL NW1/4NE1/4, SECTION 23, T.14S., R.10E. S.L.M., CARBON COUNTY, UTAH



Scale:	N	TS D	ate:	07/29/08	SHEET NO:	
REVIS	ED:			05/11/10	4	4 OF 9



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE SOUTH



PHOTOGRAPH OF WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE EAST

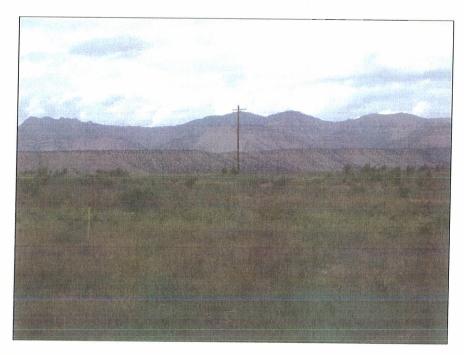
KERR-MCGEE OIL & GAS ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202



CONSULTING, LLC	
371 Coffeen Avenue	
Sheridan WY 82801	
Phone 307-674-0609	
Fax 307-674-0182	

Scale:	NTS	Date:	07/29/08	SHEET NO:	
REVISED:			05/11/10	4A	4A OF 9



PHOTOGRAPH OF PROPOSED ACCESS INTO THE WELLINGTON FEDERAL 31-23 WELL LOCATION - CAMERA ANGLE NORTHWEST

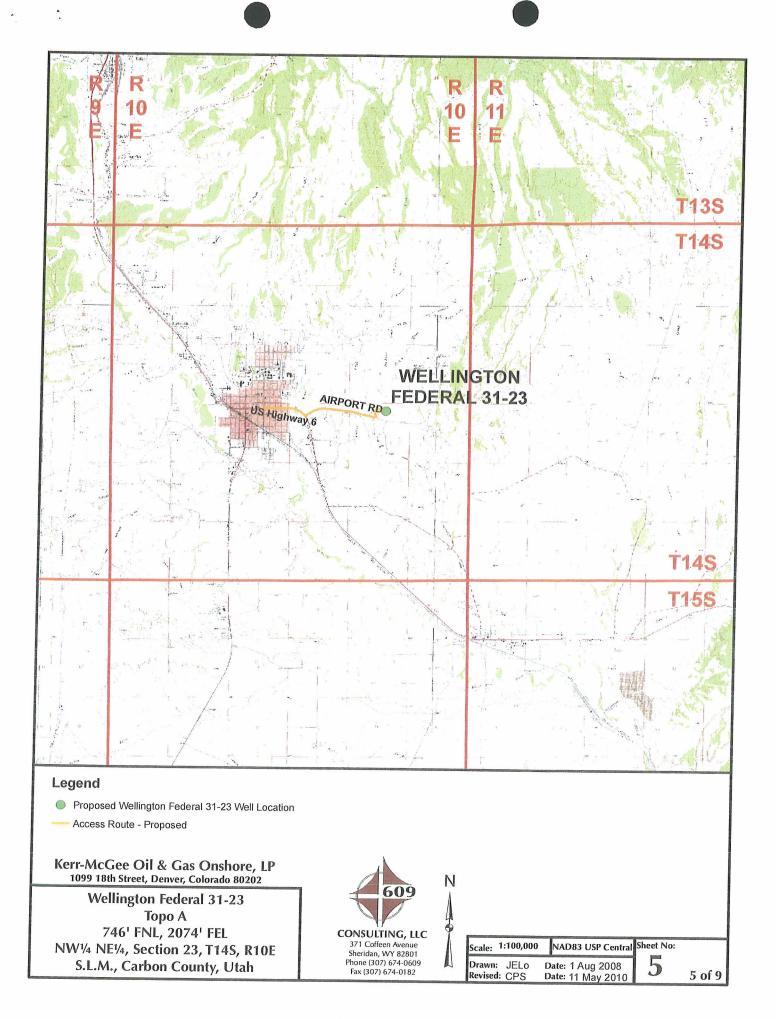
KERR-MCGEE OIL & GAS ONSHORE L.P.

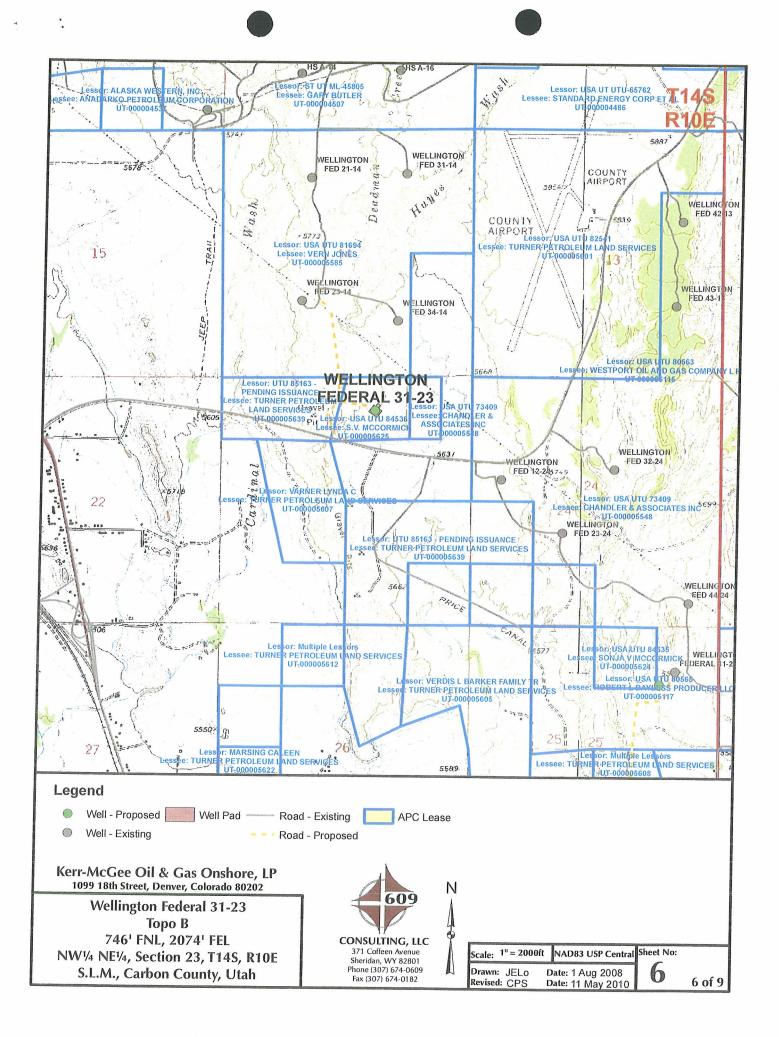
1099 18th Street - Denver, Colorado 80202

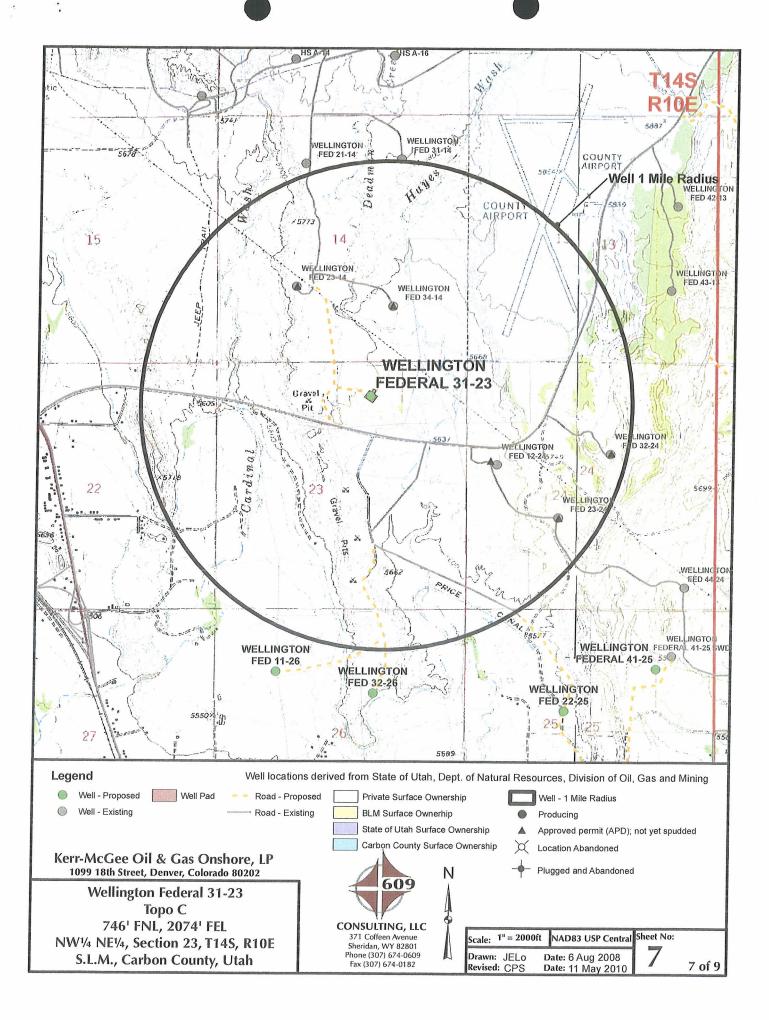


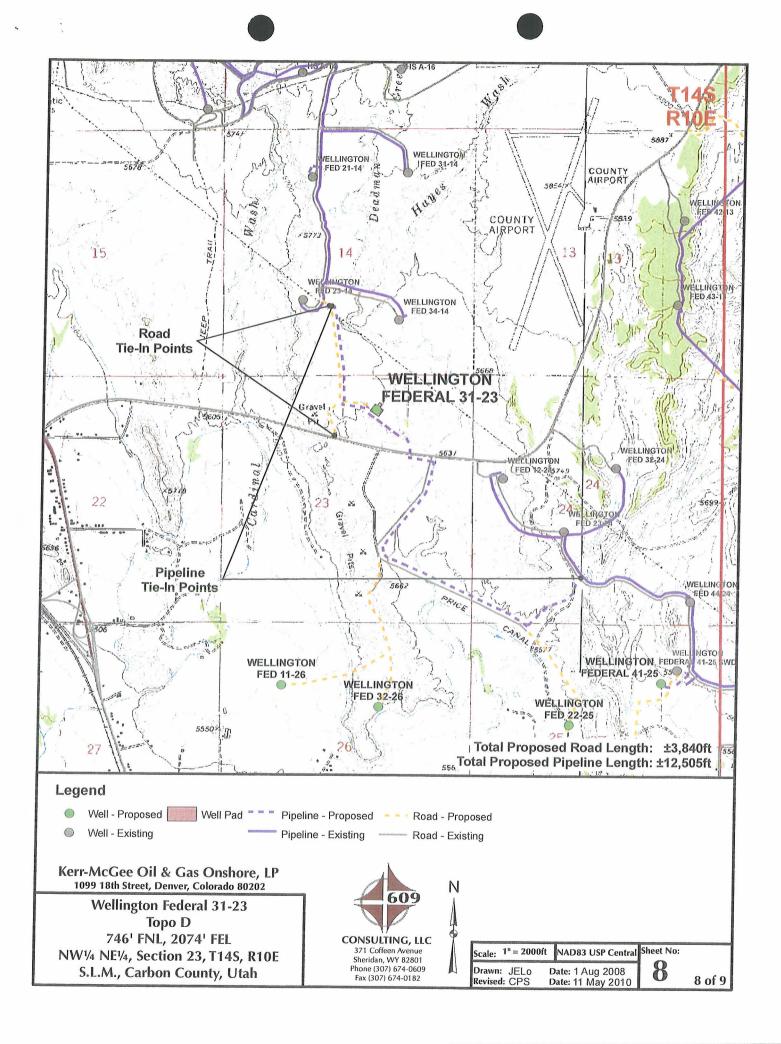
11
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale:	NTS	Date:	07/29/08	SHEET NO:	
REVISED:			05/11/10	4B	4B OF 9









Kerr-McGee Oil & Gas Onshore, LP WELLINGTON FEDERAL 31-23 SECTION 23, T14S, R10E, S.L.M.

Proceed in an easterly direction from Price, Utah, along U.S. Highway 6, gradually changing to southerly, approximately 0.8 miles to the junction of Airport Road. Exit left and proceed in an easterly direction approximately 1.2 miles to the junction of Airport Road and the proposed access road to the Wellington Federal 21-23 and Wellington Federal 31-23, to the north. Exit left and proceed in a northerly direction following the road flags, approximately 0.1 miles to the junction of this road and the beginning of proposed access road to the Wellington Federal 31-23 to the east. Turn right and proceed in an easterly direction; following the road flags approximately 0.1 miles to the junction of this road and the proposed Wellington Federal 31-23 well location.

Total distance from Price, Utah, to the proposed Wellington Federal 31-23 well location is approximately 2.2 miles.

RECEIVED

DEC 0 1 2011

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

DIV. OF OIL, GAS & MINING

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

	WELL	COMPI	LETION (R RE	CON	MPLET	ION R	EPOR	T AN	D LO	OG			ease Serial TU84536	No.		
la. Type o	f Well	Oil Well	Gas	Well	D D	ry 🛭	Other:	СВМ					6. If	Indian, All	ottee o	Tribe Name	=
b. Type o	f Completion	o 🔯 N	New Well er	□ Wor	rk Ove	er 🗖	Deepen	□ P	lug Back	c	🗖 Diff. I	Resvr.	7. U1	nit or CA A	Agreem	ent Name and No.	_
2. Name of	f Operator MCGEE OII			PW Fail∙ la			LAUREN			SEN	· ·			ease Name		ell No. EDERAL 31-23	_
	РО ВОХ	173779		i Kazari. Ic	201011	·Onnotici	3a.	Phone			area code)		PI Well No		43-007-50019	_
4. Location	DENVER of Well (Re	-		d in acc	ordan	ce with F				7					ool, or l	Exploratory	_
At surfa	ice NWNE	E 746FNL	2074FEL	39.5988	92 N	Lat, 110	.766480	W Lon					11. S	ELPER Sec., T., R.,	M., or	Block and Survey	_
At top p	orod interval	reported b	elow NW	NE 746	FNL 2	2074FEL	39.5988	92 N L	at, 110.	7664	80 W La	n	01	Area Se	c 23 T	14S R10E Mer 13. State	_
At total		/NE 746F	NL 2074FE	L 39.59	8892	N Lat, 1	10.7664	80 W L	on				С	ARBON		UT	
14. Date S ₁ 07/08/2	pudded 2010			ate T.D. /09/201		ned		\square D	ate Com & A /05/201	🛛 R	l Ready to I	Prod.	17. E	Elevations (57	DF, KE 01 KB	3, RT, GL)*	
18. Total D	epth:	MD TVD	1635 1635		19. I	Plug Back	T.D.:	MD TVD	1	157 157		20. De	oth Brid	ige Plug S	et:	MD TVD	_
21. Type E GR/HR	lectric & Oth	er Mecha CAL	nical Logs R	un (Subi	mit co	py of eacl	h)					well core DST run? tional Su		🔀 No	☐ Yes	(Submit analysis) (Submit analysis) (Submit analysis)	
23. Casing at	nd Liner Rec	ord (Repo	ort all strings	set in w	ell)												_
Hole Size	Size/G	rade	Wt. (#/ft.)	To _l (MI		Bottom (MD)	1 ~	Cement Depth			Sks. & Cement	Slurry (BE		Cement '	Тор*	Amount Pulled	
11.000		625 J-55	24.0		0		63	16	_		102	2	21		0		0
7.875	5.5	500 J-55	15.5		이	162	21	162	21		30	!	83		0		0
	<u> </u>				\rightarrow		+		-			+					_
	<u> </u>			-	\dashv		+	-	+-			 					_
24. Tubing	Record											,					_
	Depth Set (N		acker Depth	(MD)	Siz	e De	pth Set (1	MD)	Packer	Dept	h (MD)	Size	De	pth Set (M	D)	Packer Depth (MD)	_
2.875	ng Intervals	1389 FRN	101			1	6. Perfor	ation Re	ecord				<u> </u>				_
	ormation	7-1100	Top	I	Bott	-			d Interv	·a1		Size	T_{λ}	lo. Holes	Г	Perf. Status	-
A)		RON	- 10p	1164	Воп	1298		Ciloran			1298	2.8			OPE	· · · · · · · · · · · · · · · · · · ·	_
B)	1 57			1101		1200			1.10	1.0	1200			•	10		_
C)																	_
D)																	_
27. Acid, Fr	acture, Treat	ment, Cer	nent Squeeze	, Etc.													_
]	Depth Interva		200 5040 5	FRRAN	DOW		OINIO MIT			_	Type of N		LCAT	L CCLAND	70.200	# 20/40 CAND	
	11	64 10 12	298 FRAC F	ERRON	DOWI	N 5.5" CA	SING WI	H 87,22	1 GAL S	LICK	WATER	WITH COA	ALCA1	+ CCI AND	79,380	# 20/40 SAND.	_
						,											_
																	_
28. Producti	ion - Interval	A	'														_
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		as ICF	Water BBL		Gravity т. API		Gas Gravit	·	Producti	on Method			
08/18/2010	08/18/2010	24		0.0	"	124.0	385.	1			O.L.VII	,		ELECTR	RIC PUN	IPING UNIT	
Choke	Tbg. Press.	Csg.	24 Hr.	Oil		as	Water		:Oil		Well S	tatus					_
Size N/A	Flwg. 180 SI	Press. 180.0	Rate	BBL 0	I ^M	124	BBL 385	Rat	0		F	PGW					
28a. Produc	tion - Interva	l B	_	L													_
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		as ICF	Water BBL		Gravity r. API		Gas Gravit	у	Producti	on Method			
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL		as ICF	Water BBL	Ga: Rat	s:Oil io		Well S	tatus		-			_
	SI			1	1			- 1									

201. Duo i	luction - Inter	1 C				 -					
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Gravity	Ga	9	Production Method	
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API		s avity	rroduction weight	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas;Oil Ratio	We	ell Status		
28c. Prod	luction - Inter	val D		<u> 1</u>	<u></u>	<u></u>					-
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	s	Production Method	
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API	Gra	avity		·
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	We	il Status		
	sition of Gas TURED	(Sold, used	for fuel, ven	ted, etc.)				·			
30. Sumn	nary of Porou	s Zones (In	clude Aquife	ers):			<u>.</u>		31. Fo	rmation (Log) Markers	
tests,	all important including dep ecoveries.	zones of poth interval	orosity and o tested, cushi	contents there on used, tim	eof: Cored e tool oper	l intervals and n, flowing and	all drill-stem shut-in pressure	:s			
	Formation		Тор	Bottom		Descriptio	ns, Contents, etc).		Name	Top
				 			 		14/	ANCOS	Meas. Depth
									FE TA	RNCUS ERRON INNUNK OWER TANNUNK	1082 1465 1565
											:
		ļ		ļ							
							1				
32. Addit	ional remarks	(include p	lugging proc	edure):			· <u>-</u>	·	_L,		
Spec 1164 1177 1185 1198 1232 1262	ific perforation -1167' -1180' -1190' -1206' -1242' -1271' -1282'	ons in Feri	ron coals:	,							
33. Circle	enclosed atta	achments:	<u></u>								
1. El	ectrical/Mech	anical Logs	s (1 full set re	eq'd.)		2. Geologic	Report	;	3. DST Re	eport 4. Direct	tional Survey
5. Su	ndry Notice f	or plugging	g and cement	verification		6. Core Ana	llysis	•	7 Other:		
34. I here	by certify tha	t the forego	oing and atta	ched informa	ition is cor	mplete and cor	rect as determin	ed from a	ıll available	e records (see attached instruc	ctions):
			Elect	ronic Subm For KERR	ission #12 MCGEE	2303 Verified OIL AND G	l by the BLM V AS ONSHORE	Vell Infor , sent to	mation Sy the Price	ystem.	
Name	e (please print	LAUREN	I CHRISTIA	NSEN		·	Title <u>F</u>	REGULA	TORY AN	IALYST	
Signa	ture	(Electror	nic Submiss	ion)			Date <u>1</u>	1/07/20	11		
Title 18 U	J.S.C. Section ited States an	1001 and y false, fict	Title 43 U.S. itious or frac	.C. Section 1 lulent statem	212, make ents or rep	e it a crime for presentations a	any person kno s to any matter	wingly ar	nd willfully jurisdiction	to make to any department on.	r agency

Additional data for transaction #122303 that would not fit on the form

32. Additional remarks, continued

1292-1298'

KERR-MCGEE OIL AND GAS ONSHORE LP WELLINGTON FEDERAL 31-23 NW NE 23 14S 10E 746' FNL 2,074' FEL CARBON,UTAH

10/20/2011

RECEIVED
DEC 0 1 2011

DIV. OF OIL, GAS & MINING

AREA:

ROUTE:

Spud: 07/08/2010

WINS No.: 96082

AFE/WO#: 2017539

API#: 4300750019

GL: <u>5692</u> KB:

KB: 5701 MTD: 1635

TVD: 1635

LOG MD: 1641

PBMD: 1578

PBTVD: 1578

Directions:

HOLE SECTIONS	<u>Size</u>	Top	<u>Btm</u>	TD Dat	<u>:e</u>				
SURFACE	11.00	26	178	07/08/2	2010				
PRODUCTION	7.88	178	1635	07/09/2	2010				
<u>TUBULARS</u>	Tool Type	<u>Joints</u>	Size !	<u>Veight</u>	Grade	Thread	Tor	<u>D</u>	Bottom [
SURFACE CASING									
	Casing Guide Shoe	3	8.63		J-55			0	11!
	Baffle	1	8,10				1	19	11:
	Shoe Joint	1	8.63	24.00	J-55	STC	1	19	16
	Casing Guide Shoe	1	8.63		J-55		1	62	16
PRODUCTION CASING									
	Casing	37	5.50	15.50	J-55	STC		0	157
	Casing Float Collar	1	5.50				15	78	158
	Shoe Joint	1	5.50	15.50	J-55	STC	15	80	162
	Casing Guide Shoe	1	5.50				16	20	162
ROD STRING									
	Polished Rod	1	1.25					0	2:
	Pony Rod(s)	2	0.88					22	2
	Guide Rod(s)	4	0.88					28	12
	Guide Rod(s)	27	0.75				1	28	80
	Guide Rod(s)	15	0.88				8	03	117
PRODUCTION TUBING									
PRODUCTION TOBING	Tubing	9	2.88	6.50	J-55	External-Ups		6	29
	Tubing	28	2.88	6.50	J-55	External-Ups	2	91	117
	Seating Nipple	1	2.88		N-80			73	117
	Tubing	1	2.88	6.50	J-55	External-Ups		74	120
	Crossover	1	2.38		N-80			:06	120
	Anchor/Catcher	1	5,50		N-80			:07	121
	Crossover	1	2.38		N-80			10	121
	Tubing	5	2.88	6,50	J-55	External-Ups		:11	136
	Tubing	1	2.88	6.50	J-55	External-Ups		69	138
OCHENT IODS	Store	Cask	Comon	laha			Top D	Dim F	cbl
CEMENT JOBS	<u>Stage</u>	Sacks	<u>Cement</u>	. 3003			100 0	<u> Duni E</u>	2 501
SURFACE CASING	DOIN ONT 40T OTA	Or 400	LEAD	010	_		0	164	s No
	PRIM CMT 1ST STA	.GE 102	LEAD	0-1-0	G		U	104	i No
PRODUCTION CASING									
	PRIM CMT 1ST STA		LEAD		ILL 1450		0	982	
	PRIM CMT 1ST STA	GF 165	TAIL	0-1-0	G CEMENT		982	1621	l No
PERFORATIONS									
Formation Zone	<u>Top</u>	<u>Btm</u>	Date	Reas	son	Cor	nments		
FERRON	1164	1167	07/15/2010	PRO	DUCTION				
FERRON	1177	1180	07/15/2010	PRC	DUCTION				
FERRON	1185	1190	07/15/2010		DUCTION				
FERRON	1198	1206	07/15/2010		DUCTION				
	1232	1242	07/15/2010		DUCTION				
FERRON					DUCTION				
FERRON	1262	1271	07/15/2010						
FERRON	1274	1282	07/15/2010		DUCTION	' Svens Agel billion	era e	present se	acolor.
FERRON	1292	1298	07/15/2010	PRC	DUCTION	Harrie F. France		Bernan E	Ŋ

Comments:

NOV 1 0 2011

ANOMINO OU 8 DAS

KERR-MCGEE OIL AND GAS ONSHORE LP **WELLINGTON FEDERAL 31-23** NW NE 23 14S 10E 746' FNL 2,074' FEL CARBON,UTAH 10/20/2011

AREA:

ROUTE:

Spud: 07/08/2010

WINS No.: 96082

AFE/WO#: 2017539

API#: 4300750019

GL: 5692

KB: 5701

MTD: 1635

TVD: 1635

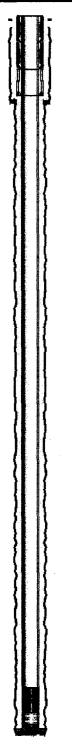
LOG MD: 1641

PBMD: 1578

PBTVD: 1578

Directions:





RECEIVED

DEC 0 1 2011

DIV. OF OIL, GAS & MINING

US ROCKIES REGION

NOV 1 0 2011

Event: DRILLING	Start Date: 7/8/2010	End Date: 7	7/9/2010
Project: UTAH-CARBON	Site: WELLINGTON FEDERAL 3	1-23 Rig Name I	No: PENSE BROTHERS 19/19
Well: WELLINGTON FEDERAL 31-23	Spud Conductor: 7/8/2010	Spud Date: 7/8/2010	NO DENSE PROTUERS 18/18 COMMISSION
	Operation Sum	mary Report	WYOMING OIL & GAS

Project: UTAH-CARBON			Site: WEL	LINGTO	N FEDER	AL 31-23	Rig Name No: PENSE BROTHERS 19/19	
Event: DRILLING	 }	w		Start Date	e: 7/8/201	0	T	End Date: 7/9/2010
Active Datum: R	<b @5,7<="" th=""><th>01.00usft (ab</th><th>ove Mean S</th><th></th><th></th><th></th><th>4/S/10/E/</th><th>23/0/0/26/PM/N/746/E/0/2074/0/0</th>	01.00usft (ab	ove Mean S				4/S/10/E/	23/0/0/26/PM/N/746/E/0/2074/0/0
Date	1.00	Time art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From Operation (usft)
7/8/2010	3:00	- 7:15	4.25	RDMO	01	E	Р	RIG DOWN AND WAIT ON TRUCKS TO SHOW UP ON LOCATION TO MOVE RIG TO THE WELLINGTON FED 23-17
	7:15	- 10:00	2.75	MIRU	01	. A	P	MOVE RIG TO WELLINGTON FED 23-17
	10:00	- 11:00	1.00	MIRU	01	В	P	RIG UP ON THE WELLINGTON FED 23-17
	11:00	- 12:00	1.00	DRLCON	01	D	₽ .	SPUD CONDUCTOR, DRLG F/0' TO 26'
	12:00	- 13:15	1.25	DRLCON	01	В	P	SET CONDUCTOR AT 26', NIPPLE UP CONDUCTOR AND FLOW LINE AND DIVERTER CAN
	13:15	- 14:15	1.00	DRLSUR	02	Α	P	SPUD SURFACE DRLG F/26' TO 178' = 152' @ 152 FPH / WOB 5K - 10K / TD RPM 45-55 / COMP
								OUTPUT 3000 CFM / SPP ON/OFF 300/300 / PU/SO/ROT 10K/10K/10K / AIR DUSTING
	14:15	- 14:45	0.50	CSG	06	D	Р	TOOH TO RUN 8 5/8 CASING
	14:45	- 15:00	0.25	CSG	12	С	P	RUN 8 5/8 CASING, RAN 4 JTS 8 5/8 CASING, SET CASING @ 163.5', PBTD @ 118.74'
	15:00	- 15:30	0.50	CSG	12	В	Р	RIG UP CEMENTERS AND LOAD CASING AND HOLE WITH WATER
	15:30	- 16:00	0.50	CSG	12	E	P	HELD SAFETY MEETING (REVIEW JSA) TEST PUMPS & LINES TO 1300 PSI / PUMP 20 BBLS H20 + 102 SX/
								20.9 BBLS LEAD CEMENT @ 15.8 PPG (0:1:0 'G' +
								0.2% CFR-2 + 0.2% CFL-3 + 1.0% CaCl2 + ¼ lbs/sk Polyflake, 5.01 GALS/SX, 1.15 YIELD) / DROP PLUG
								& DISPLACE W/ 8.4 BBLS H2O / HAD FULL RETURNS THRU OUT JOB / LIFT PRESSURE @ 105
								PSI / CLOSE IN CASING W/ 100 PSI/ PLUG DOWN @ 16:09 HOURS W/ 8 BBLS CEMENT TO PIT / RDMO
	16:00	- 20:00	4.00	csg	13	Α	Р	CEMENT EQUIPMENT WOC
	20:00	- 22:00	2.00	csg	14	Ā	P	CUT OFF 8 5/8 CASING AND WELD ON WELLHEAD.
	22:00	- 23:00	1,00	CSG	14	A	P	TEST HEAD TO 1000 PSI FOR 10 MINS TEST GOOD NIPPLE UP BOPS & CHOKE MANIFOLD
	23:00	- 0:00	1.00	CSG	15	A	P	TEST BOPS, TEST CASING TO 1500 PSI/ 30MINS,
								TEST ANN & MUD CROSS VALVES 250 LOW/5 MIN 1500 HIGH/10 MINS, TEST CHECK VAVLE & FIRST
				•				CHOKE MANIFOLD VALVE 250 LOW/5 MIN, 1500 HIGH/10 MIN, TEST CHOKE MANIFOLD & CHOKE LINE 250 LOW/5 MIN 1500 HIGH/10 MIN, TEST TIW
								VALVE 250 LOW/5 MIN 1500 HIGH/10 MIN, ALL TESTS ARE GOOD (SOME TESTS WERE DONE DURING THE NIPPLE UP OF BOPS)
7/9/2010	0:00	- 0:15	0,25	CSG	15	A	Р	TEST BOPS, TEST CASING TO 1500 PSI/ 30MINS, TEST ANN & MUD CROSS VALVES 250 LOW/5 MIN 1500 HIGH/10 MINS, TEST CHECK VAVLE & FIRST CHOKE MANIFOLD VALVE 250 LOW/5 MIN, 1500 HIGH/10 MIN, TEST CHOKE MANIFOLD & CHOKE LINE 250 LOW/5 MIN 1500 HIGH/10 MIN, TEST TIW VALVE 250 LOW/5 MIN 1500 HIGH/10 MIN, ALL
	0:15	- 0:45	0.50	CSG	14	Α	Р	TESTS ARE GOOD (SOME TESTS WERE DONE DURING THE NIPPLE UP OF BOPS) NIPPLE UP FLOW LINE AND DIVERTER HEAD

Operation Summary Report

Well: WELLING	TON FED	ERAL 31-2:	3	Spud Cor	nductor: 7	7/8/2010		Spud Date: 7/8/	2010		
Project: UTAH-C	CARBON			Site: WEL	LINGTO	N FEDER	RAL 31-23		Rig Name No: PENSE BROTHERS 19/19		
Event: DRILLING	G			Start Date	e: 7/8/201	10			End Date: 7/9/2010		
Active Datum: R Level)	KB @5,70	01.00usft (a	bove Mean S	ea	UWI: NW/NE/0/14/S/10/E/23/0/0/26/PM/N/746/E/0/2074/0/0						
Date		Fime art-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
	0:45	- 1:15	0.50	CSG	06	С	Р		TIH TAG CEMENT @ 110'		
	1:15	- 1:45	0.50	CSG	02	F	P		DRLG CEMENT & FLOAT EQUIPMENT		
	1:45	- 11:45	10.00	DRLPRO	02	Α	P		DRLG F/178' TO 1635' TD = 1457' @ 145.7 FPH / WOB 5K - 10K / TD RPM 45-55 / COMP OUTPUT 3000 CFM / SPP ON/OFF 460/460 / PU/SO/ROT 28.2K/28.2K/28.2K / AIR/WATER MIST, HIT H2O AT		
									1250'		
	11:45	- 12:45	1.00	DRLPRO	05	C	Р		CLEAN HOLE AND LOAD HOLE WITH KCL WATER FOR LOGS		
	12:45	- 14:00	1.25	DRLPRO	06	В	P		TOOH F/LOGS		
	14:00	- 14:45	0.75	EVALPR	11	D	Р		RIG UP LOGGERS AND HELD SAFETY MEETING		
	14:45	- 16:00	1.25	EVALPR	11	D 1	Ρ	en e	RUN OPEN HOLE LOGS, LOGGERS TD 1641' DRILLERS TD 1635'		
	16:00	- 17:15	1.25	EVALPR	11	D	Р		RIG DOWN LOGGERS AND PREPAIR TO RUN 5 1/2 CASING		
	17:15	- 18:30	1.25	csg	12	Α .	P		RIG UP TO RUN 5 1/2 CASING & HELD SAFETY MEETINGS		
	18:30	- 19:45	1.25	CSG	12	С	P		RUN 5 1/2 CASING, RAN 38 JTS, 5 1/2, J-55, 15.5# STC CASING, SET CASING @ 1620.8', PBTD @ 1577.9'		
	19:45	- 21.00	1.25	CSG	12	В	P		RIG UP CEMENTERS AND HELD SAFETY MEETING		
									AND REVIEW JSA'S		
	21:00	- 21:45	0.75	CSG ·	12	E	Р		TEST PUMPS & LINES TO 2200PSI / PUMP 40 BBLS H20 + 20 BBLS SCAVENGER CEMENT + 136 SX/ 49.4 BBLS LEAD CEMENT @ 12.5 PPG (LITEFILL 1450 + 0.5% CFL-3 + 1/2 lbs/sk Polyflake, 15.3 GALS/SX, 2.04 YIELD) + 165 SX/ 33.8 BBLS TAIL @ 15.8 PPG (0:1:0 'G' + 0.2% CFR-2 + 0.2% CFL-3 + 1.0% CaCl2 + 1/2 lbs/sk Polyflake, 5.01 GALS/SX,		
									1.15 YIELD) / DROP PLUG & DISPLACE W/ 30.4 BBLS H2O / FULL RETURNS THRU OUT JOB / LIFT PRESSURE @ 545 PSI (EST. TOP OF LEAD 0.0', EST. TOP OF TAIL @ 982') / BUMP PLUG W/ 1000 PSI – HOLD 5 MINUTES W/ NO LOSS / PLUG DOWN @ 21:47 HOURS W/ 10 BBLS CEMENT TO PIT / FLOATS HELD W/ 1 BBLS BACK TO INVENTORY / RDMO CEMENT EQUIPMENT, CEMENT FELL 0' BY THE TIME WE NIPPLED DOWN.		

10/20/2011

8:37:11AM

Operation Summary Report

Well: WELLINGTON FEDERAL 31-23	Spud C	onductor:	7/8/2010	Sp	oud Date: 7/8/2010			
Project: UTAH-CARBON	Site: W	ELLINGTO	N FEDER	RAL 31-23	Rig Name No: PENSE BROTHERS 19/19			
Event: DRILLING	Start D	art Date: 7/8/2010			End Date: 7/9/2010			
Active Datum: RKB @5,701.00usft (above Level)	Mean Sea	UWI: N	UWI: NW/NE/0/14/S/10/E/23/0/0/26/PM/N/746/E/0/2074/0/0					
[2] 전시 : 10 10 10 10 10 10 10 10 10 10 10 10 10	uration Phase (hr)	Code	Sub Code	P/U	MD From Operation (usft)			
21:45 - 0:00	2.25 CSG	14	Α	Р	NIPPLE DOWN BOPS, SET CASING SLIPS & RIG RELEASE @ 23:59 ON JULY 9TH 2010			

CONDUCTOR CASING:

Cond. Depth set: Cement sx used:

SPUD DATE/TIME: 7/8/2010 13:15

SURFACE HOLE:

Surface From depth: 26 Surface To depth: Total SURFACE hours: 1.00 Surface Casing size: 8 5/8 # of casing joints ran: Casing set MD: 163.5 # sx of cement: 102 Cement blend (ppg:) 15.8 Cement yield (ft3/sk): 1.15

of bbls to surface: 20.9 Describe cement issues:

CEMENT JOB WENT GREAT

8 BBLS TO PIT

Describe hole issues:

HOLE DRILL GREAT AND IN

GREAT SHAPE

PRODUCTION:

Rig Move/Skid start date/time: 7/8/2010 7:15 Rig Move/Skid finish date/time: 7/8/2010 10:00

Total MOVE hours: 2.7

Prod Rig Spud date/time: 7/8/2010 13:15

Rig Release date/time:

7/9/2010 23:59

Total SPUD to RR hours: 34.7 Planned depth MD 1,597

Planned depth TVD Actual MD: 1,635

Actual TVD:



PRODUCTION HOLE:

Prod. From depth: 178

Prod. To depth: 1,635

Total PROD hours:

10

Log Depth: 1641

Float Collar Top Depth: 1577.9

Production Casing size: 5 1/2 # of casing joints ran: 38 1,620.8

Casing set MD: # sx of cement:

136 SKS LEAD, 165 SKS TAIL

Cement blend (ppg:) Cement yield (ft3/sk):

12.5# LEAD, 15.8# TAIL 2.04 YIELD LEAD, 1.15

YIELD TAIL

Est. TOC (Lead & Tail) or 2 Stage :

EST TOC LEAD

0.0, EST TOC TAIL 982' Describe cement issues:

CEMENT JOB WENT GREAT

NOV 1 n 2011

WYOMING OIL & GAS CONSERVATION COMMISSION

Well: WELLINGT	ON FEDERAL 31-23	i	Spud Co	nductor: 7	7/8/2010		Spud Date: 7/8	/2010			
Project: UTAH-CARBON Site: WE					N FEDE	RAL 31-2	3	Rig Name No: PENSI	Rig Name No: PENSE BROTHERS 19/19		
Event: DRILLING Start Dat					0			End Date: 7/9/2010			
Active Datum: RI Level)	KB @5,701.00usft (ab	oove Mean Se	a	UWI: N\	//NE/0/1	14/S/10/E	/23/0/0/26/PM/N/7	46/E/0/2074/0/0			
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)		Operation		
								10 BBLS CEMENT TO Describe hole issues: H2O AT 1250' DIRECTIONAL INFO: KOP: Max angle: Departure: Max dogleg MD:	PIT HOLE DRILLED GREAT HIT		



US ROCKIES REGION Operation Summary Report Spud Date: 7/8/2010 Spud Conductor: 7/8/2010 Well: WELLINGTON FEDERAL 31-23 Project: UTAH-CARBON Site: WELLINGTON FEDERAL 31-23 Rig Name No: End Date: 8/5/2010 **Event: COMPLETION** Start Date: 7/12/2010 UWI: NW/NE/0/14/S/10/E/23/0/0/26/PM/N/746/E/0/2074/0/0 Active Datum: RKB @5,701.00usft (above Mean Sea Level) Date Phase Code P/U Operation Time Duration MD From Sub Start-End Code (usft) (hr) 7/15/2010 COMP MIRU ACTION HOT OIL TRUCK, HOLD SAFETY MEETING PRESSURE TEST CASING TO 4 000 PSI -TEST OK, MIRU JW WIRELINE RIH WITH GAUGE RING AND JUNK BASKET TO PBTD, POOH RIGH WITH CBL, GR AND CCL TO PBTD @ PRESSURE WELL TO 2,000 PSI, RUN BOND LOG - LOG OK POOH, RIH WITH PERFORATING GUNS, SHOT PERFS. RDMO 7/22/2010 COMP **HYLAND SET 5 FRAC TANKS & NIELSON FILLED** TANKS WITH WATER. 7/23/2010 7:00 - 8:00 1.00 COMP 36 MIRU SUPERIOR. FRAC FERRON DOWN 5.5" CASING WITH 87,221 GAL SLICKWATER WITH COALCAT + CCI AND 79,380# 20/40 SAND. AVE PRESSURE 1883 PSI, AVE RATE 79 BPM, MAX PRESSURE 2203 PSI. FORMATION BROKE 906 PSI, 1.8 BPM. COMP 8/3/2010 - 20:00 14 00 30 6:00 AM MOVE RIG & EQUIP FROM WELLINGTON FED. # 12-20, TO WELLINGTON FED. # 31-23, (8.2 MI), SET EQUIP, STAND UP RIG, BLEED PRESS OFF WELL, CONTROL, REMOVE FRAC VLAVE, INSTALL BOP, MADE UP RBS CLEAN OUT TOOLS, TALLY & PICK UP 27/8" TBG, TAG SAND @ 1422', CLEAN OUT WELL BORE, TO 1565' PBTD, POOH LAYING DOWN 27/8" TBG, CHG EQUIP TO FIBERGLAS TBG, MADE UP 23/8" NOTCHED PINNED COLLAR, 23/8" SS PSN, RIH W/ 39 JTS 23/8" FIBERGLAS TBG, RIG UP FLOOR, STRIP OFF BOP, INSTALL C-FLANGE SCREW ON TYPE HANGER, LAND TBG @ NUETRAL WT, PSN @ 1152.00', EOT @ 1153.40', RIG UP SWAB EQUIP, SWAB WELL, MADE TTL 12 RUNS, FLUID LEVEL @ 100' 1ST RUN SWABBING FROM PSN @ 1150', CLOSE WELL IN FOR NIGHT, 8:00 PM SDFD 6:00 8/4/2010 - 19:00 COMP 13.00 6:00 AM CHECK PRESS, 10#, RIG UP SWAB EQUIP, CONT SWABBING WELL, FLUID LEVEL @ 100', SWAB FROM PSN @ 1150', MADE TTL 40 RUNS,



RIG DOWN SWAB, MADE UP NEW BHA, RIH W/ 23/8" NOTCHED PINNED JT, 5 JTS 23/8" TBG, (DIP TUBE), 51/2" TECH TAC LH SET TA/C, X-OVER, 1 JT 27/8" TBG, 27/8" PSN, 37 JTS 27/8" TBG, TALLY & PICK UP., CLOSE WELL IN FOR NIGHT, 7:00 PM

SDFD

NOV 1 0 2011

WYOMING CIL & GAS CONSERVATION COMMISSION

			INEU NEOIOIN								
		Operation S	Summary Report								
Well: WELLINGTON FEDERAL 31-23	Spud Co	oud Conductor: 7/8/2010 Spud Date: 7/8/2010									
Project: UTAH-CARBON	Site: WE	LLINGTON FEDEI	RAL 31-23	Rig Name No:							
Event: COMPLETION	Start Dat	e: 7/12/2010		End Date: 8/5/2010							
Active Datum: RKB @5,701.00usft (above Mear Level)	Sea	UWI: NW/NE/0/1	4/S/10/E/23/0/0/26/PM/N/	746/E/0/2074/0/0							
Date Time Duration Start-End (hr)	Phase	Code Sub	P/U MD From (usft)	Operation							
8/5/2010 6:00 - 12:00 6.00	COMP	30 C	P	6:00 AM BLEED PRESS OFF WELL, CONTROL, RIG UP WORK FLOOR, STRIP OFF BOP, SET TA/C @ 1208.86', PSN @ 1175.42', EOT @ 1389.55', LAND ON WEATHERFORD KTH FLANGE W/ 20,000# TENSION ON TBG, PUT WELLHEAD ETC TOGETHER, FLUSH TBG, CHG EQUIP TO RODS, PICK UP TEST NEW PUMP, (PHOENIX SURVEY # ANA-236 21/2"X2"X16' RWAC STEEL BBL 3' SM PLUNGER 138" STROKE), RIH W/ PUMP, 15-7/8", 27-3/4", & 4-7/8" RODS ALL W/G'S, 1-6' 1-2'X7/8" PONY RODS, POLISH ROD, SPACE OUT, SEAT PUMP, FILL TBG, STROKE TEST TO 1000#, HELD, GOOD PUMP ACTION, HANG OFF RODS, LAY DOWN RIG, LOAD EQUIP, WELL'S READY TO PUMP, 12:00 NOON STOP TIME							
12:00 - 12:00 0.00 12:00 - 12:00 0.00	COMP	47 47	P P	SET EQUIPMENT NELCO INSTALL GATHERING PIPELINES. BODEC INSTALL HIGH VOLTAGE LINES. WL PLASTICS PIPELINE MATERIAL & HD SUPPLY ELECTRICAL MATERIALS.							
12:00 - 12:00 0.00 12:00 - 12:00 0.00	RDMO COMP	50 47	P	FINAL REPORT: I-OTHER COMPLETION NELCO MOVED IN EQUIP, EMPTY PIT OF FLUIDS, REMOVE BIRD NETTING, CLOSE PIT, RECONTOUR LOCATION AS PER COA'S.							

10/20/2011

43.007.50019 Wellington Fed 31-23



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov/ut/st/en.html



IN REPLY REFER TO: 3180(UTU88570) UT-922100 RECEIVED
JUN 1 2 2012

DIV. OF OIL, GAS & MINING

JUN 08 2012

Kerr-McGee Oil & Gas Onshore, LP Attn: Mr. Vincent L. Bernal 1099 18th Street, Suite 1800 Denver, CO 80202

Dear Mr. Bernal:

Enclosed is one approved copy of Communitization Agreement No. UTU88570. This agreement communitizes all rights as to natural gas and associated liquid hydrocarbons producible from the Ferron Formation, covering the NE½ of Section 23, Township 14 South, Range 10 East, SLB&M, Carbon County, Utah. This agreement conforms to the spacing set forth in Order No. 241-4 issued by the Utah Board of Oil, Gas and Mining on September 26, 2000.

This agreement is effective as of August 1, 2010. The communitized area covers 160.00 acres and includes portions of Federal oil and gas leases UTU73409 and UTU84536.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

Office of Natural Resources Revenue Form MMS-4054, "Oil & Gas Operations Report", must be submitted for this agreement beginning with the month in which drilling operations commenced for the Wellington Federal 31-23, located in the NW¼NE¼, Section 23, Township 14 South, Range 10 East, SLB&M, Carbon County, Utah, API # 43-007-50019, on Federal Lease UTU84536. Form MMS-4054 is to be mailed to the Office of Natural Resources Revenue, P.O. Box 25627, Denver, Colorado 80225-0627.

Please furnish all interested principals with necessary evidence of this approval.

Sincerely,

Roger L. Bankert

Chief, Branch of Minerals

Enclosure

cc: UDOGM

SITLA

ONRR w/enclosure (Attn: Leona Reilly)

BLM FOM - Price w/enclosure

Form 3160-3 (August 2007)

FORM APPROVED OMB No. 1004-0137

UNITED S	TATES	Expires July 31, 2010
DEPARTMENT OF	THE INTERIOR	5. Lease Serial No.
BUREAU OF LAND	MANAGEMENT	UTU-084536
in the second state of the	ethek, kendi tekenkligi isan mujunggari untukenen (). Santa	6. If Indian, Allottee or Tribe Name
APPLICATION FOR PERMIT	TTO DRILL OR DEEPEN	N/A
	マスカー 全体素した	7. If Unit or CA Agreement, Name and No.
1a. Type of Work X DRILL REE	NTER	N/A
		8. Lease Name and Well No.
1b. Type of Well Oil Well Gas Well X Other CE	Single Zone Multiple	Zone Wellington Federal 31-23
2. Name of Operator Contact	: Emile Goodwin, Drilling Enginee	9. API Well No.
Kerr-McGee Oil & Gas Onshore LP E-mail	: Emile.Goodwin@anadarak	o.com 43-007-50019
3a Address 1099 18th Street, Suite 1800, Denver,	CO 80202 3b. Phone No. (include an	ea code) 10. Field and Pool, or Exploratory
Mailing: PO Box 173779, Denver, CO 80217-3779	720-929-6000	Helper / Ferron
4. Location of Well (Report location clearly and in accordance with any State	Requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
	NW /4 NE /4 Lot:	Sec. 23 T14S-R10E
At proposed production zone Same as above	2019: -110.700207 W	S.L.B.&M.
14. Distance in miles and direction from nearest town or post office. *		12. County or parish 13. State
Approximately 2.4 miles from Price, Uta	h	Carbon County UT
15. Distance from proposed location to nearest Unit= N/A	16. No. of acres in lease	17. Spacing Unit dedicated to this well
property or lease line, ft. (Also nearest Drig, unit line, if any) Lease= 967' FNL	120 ac.	160 acres
40 Platena from	19. Proposed depth	20. BLM/BIA Bond No. on file
well, drilling, completed or applied for, on this	1632' TVD	BLM Bond: WYB000291
lease, it.		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start *	23. Estimated duration
5692' Ungraded Ground Level	Upon APD Approval	4 days drilling, 7-14 days complete / te
	24. Attachments	
The following, completed in accordance with the requirements of	Onshore Oil and Gas Order No. 1, sha	all be attached to this form:
Well plat certified by a registered surveyor.	4. Bond to cove	r the operations unless covered by an existing
2. A Drilling Plan.	bond on file (see Item 20 above).
3. A Surface Use Plan (if the location is on National Fo		ification.
System Lands, the SUPO shall be filed with the app Forest Service Office).		te specific information and/or plans as may be ne authorized officer.

25. Signature () III O Reland	Name (<i>Printed/Typed</i>) Debby J. Black	Date April 14, 2009
Title Staff Regulatory Analyst	(Debby Black@anadarko.com)	720-929-6472 (Direct Line) 303-868-8485 (Cell)
Approved by (Signature)	Name (Printed/Typed) TELLY KENEDIS	Date //2/2010
THE ASTING FIELD MANAGER	Office	LD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section/1001 and Title 43 U.S.C. Section/1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false,



RECEIVED JAN 1 2 2010

CONDITIONS OF APPROVAL ATTACHED

2009 Cardinal Draw Wells - Linked Permit FORMS UDOGM-BLM (BEM) A

DIV. OF OIL, GAS & MINING



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

PRICE FIELD OFFICE

PRICE. UT 84501

(435) 636-3600



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

Kerr-McGee Oil & Gas Onshore LP

Wellington Federal 31-23

API No: 43-007-50019 Location: Lease No: NWNE-Sec 23-T14S-R10E

UTU-84536

Agreement:

N/A

Title Acting Field Manager & Authorized Officer:	Name Jerry Kenczka	Office Phone Number (435) 636-3633	Cell Phone Number (435) 828-7378
Petroleum Engineer:	Marvin Hendricks	(435) 636-3661	(435) 650-9136
Petroleum Engineering Technician	Walton Willis (Primary) Randy Knight (Alt.)	(435) 636-3662	(435) 650-9140
Petroleum Engineering Technician		(435) 636-3615	(435) 650-9143
NRS/Enviro Scientist:	Kyle Beagley (Primary)	(435) 636-3668	
NRS/Enviro Scientist:	Don Stephens (Alt.)	(435) 636-3608	

Fax: (435) 636-3657

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify NRS)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Petroleum Eng. Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Petroleum Eng. Technician)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	<u>-</u>	Within Five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

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DRILLING PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DRILLING & PRODUCTION COAS

- Permitting approval from the State of Utah Division of Oil, Gas & Mining (DOGM) is required before conducting any surface disturbance activities.
- A copy of the approved Application for Permit to Drill (APD) for this well shall be on location at all times once drilling operations have commenced.
- While drilling with an air package, the requirements of Onshore Order #2 Part III.E Special Drilling Operations shall apply with the exception of the criteria below where a variance is requested.
- The top of cement behind the 5 1/2" casing is designed to be 700' above the Ferron sandstone. The projected depths of the Southern Cardinal Draw wells are shallow and range from 1219' to 1683', with anticipated Ferron tops ranging from 669' to 1213', respectively. In view of this information, cement behind the 5 ½" production string shall be brought to surface on this well.
- If no cement returns are seen at surface while cementing the production casing, a cement bond log (CBL) shall be run to determine the top of cement (with a field copy sent to the Price Field Office), and mitigation measures taken to ensure the 5 ½" annulus is cemented to surface.

VARIANCES GRANTED

- Kerr-McGee's request for variance to not install a 100' blooie line (Onshore Order #2 Part III.E Special Drilling Operations) is granted, however a blooie line having a minimum length of 80' at the discharge point shall be used.
- Kerr-McGee's request for variance to not install an ignition device (Onshore Order #2 Part III.E Special Drilling Operations) is granted, as free natural gas is not expected while drilling. Should natural gas be encountered, the operator will ensure that a continuous ignition system is installed and used for the remainder of the well.

STANDARD OPERATING REQUIREMENTS

- The Price Field Office petroleum engineer will be notified 24 hours verbally prior to spudding the well.
- Notify the Price Field Office petroleum engineering technician at least 24 hours in advance of casing cementing operations, BOPE tests and casing pressure or mud weight equivalency tests.
- The requirements included in Onshore Order #2 Drilling Operations shall be followed.

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STANDARD OPERATING REQUIREMENTS (cont.)

- Should H₂S be encountered in concentrations greater than 100 ppm, the requirements of Onshore Order #6 Hydrogen Sulfide Operations shall be followed.
- Any deviation from the permitted APD's proposed drilling program shall have prior approval from the petroleum engineer. Changes may be requested verbally (to be followed by a written sundry sent to this office), or submitted by written sundry if time warrants.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed. The closing unit controls shall remain unobstructed and readily accessible at all times, and choke manifolds shall be located outside of the rig substructure.
- BOP testing shall be conducted within 24 hours of drilling out from under the surface casing, and weekly thereafter as specified in Onshore Order #2.
- All BOPE components shall be inspected daily, and the inspections recorded in the
 daily drilling report. Components shall be operated and tested, as required by
 Onshore Order #2 to insure good mechanical working order. All BOPE pressure
 tests shall be performed by a test pump with a chart recorder, and not by the rig
 pumps. Test results shall be reported in the driller's log.
- All casing strings below the conductor pipe shall be pressure tested to .22 psi/foot or 1500 psi (whichever is greater), but not to exceed 70% of the internal yield pressure.
- No aggressive/fresh hard-banded drill pipe shall be used in the casing design. The proposed use of non-API standard casing must be approved in advance by the petroleum engineer.
- During drilling operations, daily drilling reports shall be emailed to the Price Field Office petroleum engineer and petroleum engineering technicians. Within 30 days of: 1) finishing drilling operations, and 2) finishing well completion operations, a chronological daily operations history shall be submitted by sundry to this office.
- A copy of all logs run on this well shall be submitted digitally (in PDF or TIFF format) to the Price Field Office, or alternatively by hard copy.
- The venting or flaring of gas while initially testing the well shall be done in accordance with the requirements specified in Notice to Lessees (NTL) 4A, and shall not exceed a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. Additional time needed to vent or flare gas during production operations requires prior approval from the Price Field Office.
- Proposed production operations that involve: 1) the commingling of production from wells located on-lease or off-lease, 2) off-lease measurement, or 3) off-lease storage shall have prior written approval from the Price Field Office.
- Should this well be successfully completed as a producing well, the Price Field
 Office must be notified within 5 business days following the date the well has first
 sales.

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STANDARD OPERATING REQUIREMENTS (cont.)

 Operators shall meet the requirements listed in Onshore Order #4 Measurement of Oil and Onshore Order #5 Measurement of Gas. New oil and gas meters shall be calibrated prior to initial product sales. The operator (or its contractors) is responsible for providing the date and time of the initial meter calibration (and all future meter proving schedules) to the petroleum engineering technician. Copies of all meter calibration reports that are performed shall be submitted to the Price Field Office.

- In accordance with 43 CFR 3162.4-3, this well's production data shall be reported on the "Monthly Report of Operations" starting with the month in which operations commence and continue each month until the well is plugged and abandoned.
- The operator is responsible for submitting the information required in 43 CFR 3162.4-1 Well Records and Reports, including BLM Form 3160-4, Well Completion and Recompletion Report and Log which must be submitted to the Price Field Office within 30 days of completing the well.
- Onshore Order #7 authorizes the disposal of water produced from this well in the reserve pit for a period of 90 days after the date of initial production. A permanent disposal method must be submitted and approved by this office, and in operation prior to the end of this 90-day period.
- The requirements of Onshore Order #3 Site Security shall be implemented, and include (as applicable): 1) all lines entering and leaving hydrocarbon storage tanks shall be effectively sealed and seal records maintained, 2) no by-passes are allowed to be constructed around gas meters, 3) a site facility diagram shall be submitted to the Price Field Office within 60 days following construction of the facilities.
- Additional construction that is proposed, or the proposed alteration of existing facilities (including roads, gathering lines, batteries, etc.), which will result in the disturbance of new ground, requires prior approval of the Price Field Office natural resource specialist.
- This well and its associated facilities shall have identifying signs on location in accordance with 43 CFR 3162.6 requirements.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the Price Field Office natural resource specialist.
- The Price Field Office petroleum engineer shall be notified 24 hours in advance of the plugging of the well (unless the plugging is to take place immediately upon receipt of oral approval), so that a technician may have sufficient time to schedule and witness the plugging operations.
- If operations are to be suspended on a well for more than 30 days, prior approval of the Price Field Office shall be obtained, and notification also given before operations resume.

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SURFACE USE CONDITIONS OF APPROVAL

Project Name: Kerr-McGee Application for Permit to Drill (19 APDs)

Operator: Kerr-McGee Oil and Gas Onshore, L.P.

List of Wells Covered by This COA:

Name	Section	TWP/RNG	Lease Number
Wellington Federal 12-20	20	14S/11E	UTU-80563
Wellington Federal 21-30	30	14S/11E	UTU-80565
Wellington Federal 23-20	20	14S/11E	UTU-80563
Wellington Federal 31-23	23	14S/10E	UTU-84536
Wellington Federal 32-30	30	14S/11E	UTU-80565
Wellington Federal 33-19	19	14S/11E	UTU-80563
Wellington Federal 41-25	25	14S/10E	UTU-73409

I Site Specific Conditions of Approval

- A pre-construction field meeting may be conducted prior to beginning any dirt work approved under this APD. The operator shall contact Kyle Beagley at the Price BLM office @ 435-636-3668 at least 48-hours prior to beginning operations so that the meeting can be scheduled. The operator is responsible for having all contractors present (dirt contractors, drilling contractor, pipeline contractor, project oversight personnel, etc.) including the overall field operations superintendent, and for providing all contractors copies of the approved APD(s), project map and BLM Conditions of Approval (COA) pertinent to the work that each will be doing.
- Kerr-McGee will comply with all Applicant-committed Environmental Protection Measures presented in Attachment 1.
- Kerr-McGee will comply with the Revegetation Plan for the Cardinal Draw II Coal Bed Methane Project (Appendix B in the Cardinal Draw II EA.) This plan is included as Attachment 2.
- Kerr-McGee will measure gas production on the well pad unless permission is granted for measurement at another place.
- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

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 As required by the Approved RMP, if cultural resources are uncovered during surface-disturbing activities, Kerr-McGee will suspend operations at the site and immediately contact the Authorized Officer, who will arrange for a determination of eligibility in consultation with the State Historic Preservation Officer (SHPO), and, if necessary, recommend a recovery or avoidance plan.

- The Wellington Federal 32-30 well pump-jack shall be placed parallel to the adjacent Coal Creek Road.
- As required under 40 CFR 112.3(e), Kerr-McGee will maintain a copy of the SPCC plan at each facility, if the facility is normally attended at least 8 hours per day, or at the nearest field office if the facility is not so attended. Kerr-McGee will also implement and adhere to SPCC plans in a manner such that any spill or accidental discharge of oil will be reported and remediated.
- All equipment and personnel used during drilling and construction activities will be restricted to only approved access roads.
- These wells and associated above-ground structures (e.g., production equipment, tanks, etc.), not subject to safety requirements, shall be painted Covert Green (as simulated in the Standard Environmental Colors), or shall be painted the same color as Kerr-McGee's Wellington Federal 41-25 Salt Water Disposal well that exists within the immediate proximity of these wells. Painting these wells shall occur within 6 months of being located on site.
- No oil, lubricants, or toxic substances may be drained onto the ground surface.
- Kerr-McGee will not allow any open burning of garbage or refuse at well sites or other facilities.
- Kerr-McGee will repair or replace to current BLM standards any fences, cattleguards, gates, drift fences, and natural barriers that are damaged as a result of the Proposed Action. Cattleguards will be used instead of gates for livestock control on most road ROWs.
- To minimize wildlife and vehicle collisions, Kerr-McGee will advise project personnel regarding appropriate speed limits in the Project Area. Employees and contractors will also be educated about anti-poaching laws.
- Please contact Kyle Beagley, Natural Resource Specialist, (435) 636-3668, Bureau of Land Management, Price Field Office, if there are any questions concerning these surface use COAs.

II Standard Conditions of Approval

General

- Kerr-McGee will provide geo-referenced spatial data depicting the as-built location
 of all facilities (well, road, etc) and any other related facilities to the BLM by
 November 1 of each year until completion of project construction activities has
 occurred.
- Kerr-McGee will inform their employees, contractors, and subcontractors about relevant Federal regulations intended to protect archaeological and cultural resources. All personnel will be informed that collecting artifacts, including arrowheads, is a violation of Federal law and that employees engaged in this activity will be subject to disciplinary action.

Construction

- Topsoil will be removed from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material. Any topsoil stockpiled for one year or longer will be signed and stabilized with annual ryegrass or other suitable cover crop.
- The operator will not push soil material and overburden over side slopes or into drainages. All soil material disturbed will be placed in an area where it can be retrieved without creating additional unnecessary surface disturbance and where it does not impede watershed and drainage flows.
- Kerr-McGee will construct the backslope no steeper than 1½:1, and construct the foreslope no steeper than 2:1, unless otherwise directed by the BLM Authorized Officer.
- Kerr-McGee will maintain a minimum 20-foot undisturbed vegetative border between toe-of-fill of pad and/or pit areas and the edge of adjacent drainages, unless otherwise directed by the BLM Authorized Officer.
- Reserve pits will be adequately fenced during and after drilling operations until the pit is reclaimed so as to effectively keep out wildlife and livestock. Adequate fencing is defined as follows: 1) Construction materials will consist of steel or wood posts. Three or four strand wire (smooth or barbed) fence or hog panel (16-foot length by 50-inch height) or plastic snow fence must be used with connectors such as fence staples, quick-connect clips, hog rings, hose clamps, twisted wire, etc. Electric fences will not be allowed; 2) Construction standards: Posts shall be firmly set in ground. If wire is used, it must be taut and evenly spaced, from ground level to top wire, to effectively keep out animals. Hog panels must be tied securely into posts and one another using fence staples, clamps, etc. Plastic snow fencing must be taut and sturdy. Fencing must be at least 2-feet from the edge of the pit. Three sides of the pit must be fenced before drilling begins. The fourth side of the pit must be fenced

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immediately upon completion of drilling and prior to rig release. The fence must be left up and maintained in adequate condition until pit is closed.

- The reserve pit will be oriented to prevent collection of surface runoff. After the drilling rig is removed, the operator may need to construct a berm on the uphill side of the reserve pit to divert surface drainage around it. If constructed, the berm will be left intact until the pit is closed.
- The reserve pit will be lined with an impermeable liner if permeable subsurface material is encountered. An impermeable liner is any liner having a permeability less than 10⁻⁷ cm/sec. The liner will be installed so that it will not leak and will be chemically compatible with all substances that may be put in the pit. Liners made of any man-made synthetic material will be of sufficient strength and thickness to withstand normal installation and pit use. In gravelly or rocky soils, a suitable bedding material such as sand will be used prior to installing the liner.
- Culverts will be placed on channel bottoms on firm, uniform beds, which have been shaped to accept them, and aligned parallel to the channel to minimize erosion. Backfill will be thoroughly compacted.
- The minimum diameter for culverts will be 18 inches. However, all culverts will be appropriately sized in accordance with standards in BLM Manual 9113 and the Surface Operating Standards and Guidelines for Oil and Gas Development (The Gold Book).
- Pipeline construction shall not block nor change the natural course of any drainage.
 Pipelines shall cross perpendicular to drainages. Pipelines shall not be run parallel in drainage bottoms. Suspended pipelines shall provide adequate clearance for maximum runoff.
- Pipeline trenches shall be compacted during backfilling. Pipeline trenches shall be routinely inspected and maintained to ensure proper settling, stabilization and reclamation.
- The operator shall submit a Sundry Notice (Form 3160-5) to BLM for approval prior to construction of any new surface disturbing activities that are not specifically addressed in the approved APD.
- Surface disturbance will be limited to the approved location and access routes.
- No surface-disturbing activities will occur during muddy and wet periods (e.g., when soils are saturated and excessive rutting of more than 4 inches with multiple passes could occur).
- The edges of well pads will be feathered to blend with the surrounding landscape.
- Removal and disturbance of vegetation will be kept to a minimum through construction site management (e.g., using previously disturbed areas and existing

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easements where feasible, placing pipelines adjacent to roads, limiting well pad size, etc.).

- During the construction phase of the project, Kerr-McGee will implement reclamation and weed control program after each segment of project completion. Kerr-McGee will reseed all portions of the well pad and the ROW not utilized for vehicular traffic with the recommended seed mix (see attachment 2). Post-construction seeding application will continue until determined successful by the BLM (refer to attachment 3 "Green River District Reclamation Guidelines.") Weed control will be conducted through an Approved Pesticide Use and Weed Control Plan from the AO.
- To reduce the spread or introduction of noxious and invasive weed species into the Project Area via project-related vehicles and equipment, Kerr-McGee and its contractor's will power-wash all construction equipment prior to entering the Project Area.
- Areas used for spoil storage will be stripped of topsoil before spoil placement.
- Appropriate erosion control and revegetation measures will be employed. In areas
 with unstable soils where seeding alone may not adequately control erosion, grading
 will be used to minimize slopes and water bars will be installed on disturbed slopes.
 Erosion control efforts will be monitored by Kerr-McGee and necessary
 modifications would be made to control erosion.
- Sufficient topsoil or other suitable materials to facilitate revegetation will be segregated from subsoils during all construction operations requiring excavation and will be returned to the surface upon completion of operations. Soils compacted during construction will be ripped and tilled as necessary prior to reseeding. Cut and fill sections on all roads will be revegetated with the recommended seed mix (see attachment 2).
- During the activities of road maintenance, new road construction or the construction
 of the well pad, if any standing live or dead trees are damaged, cut down or knocked
 over by grading or construction equipment, actions would be taken to remove the
 vegetation from the road or pad edge. These materials would be distributed over the
 reclaimed areas as directed by the BLM.

Operations/Maintenance

- Rat and mouse holes shall be filled and compacted from the bottom to the top immediately upon release of the drilling rig from the location.
- Hydrocarbons shall be put in test tanks on location during completion work.
 Produced water will be put in the reserve pit during completion work per Onshore Order #7.

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• The only fluids/waste materials which are authorized to go into the reserve pit are RCRA exempt exploration and production wastes. These include drilling muds and cuttings, rigwash, and excess cement and certain completion & stimulation fluids defined by EPA as exempt. It does not include drilling rig waste, such as spent hydraulic fluids, used engine oil, used oil filter, empty cement, drilling mud, or other product sacks, empty paint, pipe dope, chemical or other product containers, and excess chemicals or chemical rinsate. Any evidence of non-exempt wastes being put into the reserve pit may result in the BLM Authorized Officer requiring specific testing and closure requirements.

• If this well is drilled during the fire season (June-October), the operator shall institute all necessary precautions to ensure that fire hazard is minimized, including but not limited to mowing vegetation on the access route(s) and well location, and keeping firefighting equipment readily available when drilling, etc.

Dry Hole/Reclamation

- All disturbed lands associated with this project, access roads, well pad, etc. will be expediently reclaimed. Reclamation seeding will occur during the dormant fall season (typically October 1 through the first snowfall event) in accordance with the surface use plan and any pertinent site-specific COAs.
- Before the location has been reshaped and prior to redistributing the topsoil, the operator will rip or scarify the drilling platform and access road on the contour, to a depth of at least 12 inches. The rippers are to be no farther than 24 inches apart.
- Reserve pits will be closed within 90 days, unless the BLM Authorized Officer gives an extension. Squeezing of pit fluids and cuttings is prohibited. Pits must be dry of fluids or they must be removed via vac-truck or other environmentally acceptable method prior to backfilling, re-contouring and replacement of topsoil. Mud and cuttings left in pit must be buried at least 3-feet below re-contoured grade. The operator will be responsible for re-contouring any subsidence areas that develop from closing a pit before it is sufficiently dry.
- Kerr-McGee will distribute the topsoil evenly over the entire location and other disturbed areas; and prepare the seedbed by disking to a depth of 4-to-6 inches following the contour.
- Disturbed lands will be re-contoured back to conform to existing undisturbed topography within 60 days of the well going into production or being plugged. No depressions will be left that trap water or form ponds.
- The attached seed mixture is recommended for reclamation for these wells. If Kerr-McGee intends to use a different seed mixture, that mixture must be approved by the appropriate Authorized Officer.
- Any mulch utilized for reclamation must to be certified weed free.

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- The reclamation objectives found in the Green River District Reclamation Guidelines (refer to attachment 3) and subsequent actions in order to reach those objectives shall be followed.
- A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.
- For performance bond release approval, a Final Abandonment Notice (with a surface owner release letter on split-estate) must be submitted prior to a final abandonment evaluation by the BLM.
- Soil fertility testing and the addition of soil amendments may be required to stabilize some disturbed lands.
- Waterbars are to be constructed at least one (1) foot deep, on the contour with approximately two (2) feet of drop per 100 feet of waterbar to ensure drainage, and extended into established vegetation. All waterbars are to be constructed with the berm on the downhill side to prevent the soft material from silting in the trench. The initial waterbar should be constructed at the top of the backslope. Subsequent waterbars should follow the following general spacing guidelines:

Slope	Spacing Interval
(percent)	(feet)
<u>≤2</u>	200
2 - 4	100
4 - 5	75
≥ 5	50

Producing Well

- All internal combustion equipment will be kept in good working order.
- Landscape those areas not required for production to the surrounding topography as soon as possible.
- Reduce the backslope to 2:1 and the foreslope to 3:1, unless otherwise directed by the BLM Authorized Officer. Reduce slopes by pulling fill material up from foreslope into the toe of cut slopes.
- Production facilities (including dikes) must be placed on the cut portion of the location and a minimum of 15 feet from the toe of the back cut unless otherwise approved by the BLM Authorized Officer.
- Any spilled or leaked oil, produced water or treatment chemicals must be reported in accordance with NTL-3A and immediately cleaned up in accordance with BLM requirements. This includes clean-up and proper disposition of soils contaminated as a result of such spills/leaks.
- Distribute stockpiled topsoil evenly over those areas not required for production and reseed as recommended.

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 Upgrade and maintain access roads and drainage control (e.g., culverts, drainage dips, ditching, crowning, surfacing, etc.) as necessary and as directed by the BLM Authorized Officer to prevent soil erosion and accommodate safe, environmentallysound access.

- Prior to construction of production facilities not specifically addressed in the APD, the operator shall submit a Sundry Notice to the BLM Authorized Officer for approval.
- If not already required prior to constructing and drilling the well location, the operator shall immediately upgrade the entire access road to BLM standards (including topsoiling, crowning, ditching, drainage culverts, surfacing, etc.) to ensure safe, environmentally-sound, year-round access. This requirement does not supercede or apply where specific road requirements are addressed in the APD/POD surface use plan (e.g., two track road, spot upgrade, etc.)
- Waterbars shall be installed on all reclaimed pipeline corridors per the guidelines.

Roads and Pipelines

- New road construction and road reconstruction will comply with the BLM road and safety standards found in the BLM's 9113-Roads Manual except as modified by the BLM.
- To ensure public safety and the protection of Federal resources, roads will be constructed to an appropriate standard, no higher than necessary to accommodate the intended use. Please refer to the Gold Book, section "Road Design and Construction."
- Roads constructed on BLM lands shall be constructed to allow for drainage and
 erosion control. The operator is responsible for maintenance of all roads authorized
 through the lease or right-of-way. Construction and maintenance shall comply with
 BLM System Road Standards as described in BLM Manual Section 9113 and the
 BLM Gold Book standards, except as modified by BLM. Maintenance may include
 but is not limited to grading, applying gravel, snow removal, ditch cleaning, and
 headcut restoration/prevention.
- No road grades in excess of 10 percent will occur without written permission of the Authorized Officer.
- Topsoil from access roads and pipelines are to be wind rowed along the uphill side of the road or stored in an approved manner. When the road and pipeline is rehabilitated, this soil will then be used as a top coating for the seed bed.
- The operator shall provide an inspector under the direction of a registered professional engineer (PE) at all times during road construction. A PE shall certify (statement with PE stamp) that the road was constructed to the required BLM road standards.
- Erosion-control structures such as water bars, diversion channels, and terraces will be constructed to divert water and reduce soil erosion on the disturbed area. Road

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ditch turnouts shall be equipped with energy dissipaters as needed to avoid erosion. Where roads interrupt overland sheet-flow and convert this runoff to channel flow, ditch turnouts shall be designed to reconvert channel flow to sheet flow. Rock energy dissipaters and gravel dispersion fans may be used, or any other design which would accomplish the desired reconversion of flow regime. As necessary cut banks, road drainages, and road crossings shall be armored or otherwise engineered to prevent headcutting

Health and Safety

- In accordance with 29 CFR 1910.1200, a Material Safety Data Sheet (MSDS) for every chemical or hazardous material brought on-site will be kept on file in the Price Field Office.
- Kerr-McGee will transport and/or dispose of any hazardous wastes, as defined by RCRA, as amended, in accordance with all applicable Federal, State, and local regulations.
- All storage tanks that contain produced water, or other fluids which may constitute a hazard to public health or safety, will be surrounded by a secondary means of containment for the entire contents of the tank, plus freeboard for precipitation, or to contain 110 percent of the capacity of the tank. The appropriate containment and/or diversionary structures or equipment, including walls and floor, will be constructed so that any discharge from a primary containment system, such as a tank or pipe, will not drain, infiltrate, or otherwise escape to groundwater or surface waters before cleanup is completed. A liner shall be used when the ground is permeable and would allow filtration of fluid to the subsurface strata.
- Notice of any spill or leakage, as defined in BLM NTL 3A, will be immediately reported by Kerr-McGee to the Authorized Officer and to other Federal and State officials as required by law. Oral notice will be given as soon as possible, but within no more than 24 hours, and those oral notices will be confirmed in writing within 72 hours of any such occurrence.

Attachments:

- Attachment 1 Cardinal Draw II EA BLM Requirements and Applicantcommitted Protection Measures
- Attachment 2 Cardinal Draw II EA Appendix B Revegetation Plan For The Cardinal Draw II Coal Bed Methane Project
- Attachment 3 Green River District Reclamation Guidelines

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Attachment 1

2.2.13 Applicant-Committed Environmental Protection Measures

In addition to the environmental protection measures that are required by law, the Price RMP (BLM 2008a), EORs lease, or other applicable regulatory authorities, the following Applicant-Committed Environmental Protection Measures (ACEPMs) would also be applied to all activities on Federal lands within the Project Area or off-lease ROW. Implementation of these measures would be incorporated into the DR, which then authorizes the BLM to enforce these measures to help avoid or minimize impacts to the environment.

2.2.13.1 Cultural Resources

- Under Alternative C, a Class III inventory would be conducted for the northern access route in all areas proposed for surface disturbance, both within the Project Area and along the northern off-lease ROW. This survey would be conducted on a site-specific basis prior to the initiation of construction activities. All prehistoric and historic sites documented during the Class III inventory as eligible for listing on the National Register of Historic Places (NRHP), as well as areas identified as having a high probability of significant subsurface materials, would be avoided by development. Specifically, the access road would be altered or rerouted as necessary to avoid impacting NRHP-eligible sites. If avoidance is not feasible or does not provide the required protection, adverse effects would be mitigated (e.g., data recovery through excavation).
- EOR would inform their employees, contractors, and subcontractors about relevant Federal regulations intended to protect archaeological and cultural resources. All personnel would be informed that collecting artifacts, including arrowheads, is a violation of Federal law and that employees engaged in this activity would be subject to disciplinary action.
- If previously undocumented sites of religious or cultural importance are identified within the Project Area or off-lease ROW during the construction phase of the project, EOR would review the potential impacts consistent with the Regulatory Requirements cited in **Section 2.2.13** to verify they are sufficient to minimize any impacts. Therefore, documented and undocumented cultural resources would be protected during construction, operations, and maintenance operations and no unmitigated cultural resources that are eligible for listing on the NRHP would be impacted by the Proposed Action.

2.2.13.2 Vegetation (Including Special Status Plant Species; Invasive and Noxious Species; and Wetlands/Riparian Zones)

• Prior to the initiation of construction activities, a noxious weed inventory would be conducted at the proposed well pad and along the proposed access road. Results of the inventory would be submitted to the BLM and attached to the associated APD.

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• Prior to the initiation of construction activities, a Creutzfeld cryptantha (*Cryptantha creutzfeldii*) habitat assessment and plant inventory would be conducted in all areas proposed for surface disturbance. All plants documented during the inventory would be avoided by development. Specifically, the well pad location and access road would be altered or rerouted as necessary to avoid impacting identified plants.

2.2.13.3 Water Resources

• EOR would inform their employees, contractors, and subcontractors of the appropriate actions to take, based on the SPCC, if an accidental spill were to occur, as well as the potential impacts that could result from such a spill.

2.2.13.4 Rangeland Management

• EOR would repair or replace to current BLM standards any fences, cattle guards, gates, drift fences, and natural barriers that are damaged as a result of the Proposed Action along with private property stipulations. Cattle guards would be used instead of gates for livestock control along the road ROWs with the exception of those requests stated by fee land owners.

2.2.13.5 Fish and Wildlife (Including Special Status Species)

- To minimize wildlife mortality due to vehicle collisions, EOR would direct project personnel regarding appropriate speed limits in the Project Area and along the access road. The Utah Division of Wildlife Resources (UDWR) would be contacted regarding the presence of carrion within or along roadways.
- Employees and contractors would be educated about anti-poaching laws. If wildlife law violations are discovered, the offending employee would be subject to disciplinary action by local law enforcement and by EOR.
- Raptor management would be guided by "Best Management Practices for Raptors and Their Associated Habitats in Utah" (BLM 2008a, Appendix A). As such, prior to any surface-disturbing activities between January 1 and September 31, a BLM-approved contractor would survey all areas within 1-mile of proposed surface disturbance for the presence of raptor nests. If occupied/active raptor nests are found, construction would not occur during the nesting season for that species within the species-specific buffer described in guidelines above. In addition, as specified in these guidelines, modifications of these spatial and seasonal buffers for BLM-authorized actions would be allowed, so long as protection of nesting raptors was ensured.
- Prior to the initiation of construction activities, a prairie dog colony survey would be conducted in all areas proposed for surface disturbance. All active colonies documented during the inventory would be avoided by development. Specifically,

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the well pad location and access road would be altered or rerouted as necessary to avoid impacting identified active colonies.

2.2.13.6 Soils

- Areas used for spoil storage would be stripped of topsoil before spoil placement.
- Appropriate erosion control and revegetation measures would be employed. In areas
 with unstable soils where seeding alone may not adequately control erosion, grading
 would be used to minimize slopes and water bars would be installed on disturbed
 slopes. Erosion control efforts would be monitored by EOR and necessary
 modifications would be made to control erosion.
- Sufficient topsoil or other suitable materials to facilitate revegetation would be segregated from subsoils during all construction operations requiring excavation, and would be returned to the surface upon completion of operations. Soils compacted during construction would be ripped and tilled as necessary prior to reseeding.

Attachment 2

Cardinal Draw II EA Appendix B

Revegetation Plan For The Cardinal Draw II Coal Bed Methane Project

1.0 INTRODUCTION

Kerr-McGee Oil & Gas Onshore LP (KMG) proposes to develop coal bed methane resources within the Ferron coals and sands in Carbon County, Utah. KMG will implement the following revegetation plan to reclaim the proposed disturbances associated with the Cardinal Draw Coal Bed Methane Project. All disturbances proposed will be reclaimed including the well pads, salt-water disposal wells, and pipeline and utility corridors. All upgraded and newly constructed roads will be decommissioned and reclaimed except those the BLM or private landowner requests be kept open. Well pad and salt-water disposal well facilities will be dismantled and scrapped or moved to another site for use on future projects.

Revegetation activities at each disturbed site will begin as soon as possible given operational requirements. On all areas not needed for production, interim reclamation will be conducted as soon as possible after completion of construction to reduce the potential for erosion. This includes utility corridors and any portions of the well pads, salt-water disposal wells, and road travel surfaces disturbed during construction, but not needed during production. Interim reclamation and revegetation will be completed the first planting season following the conclusion of topsoil re-spreading and well pad grading.

Final reclamation and revegetation of the well pads, salt-water disposal wells, and road travel surfaces will be conducted the first planting season following project element decommissioning. All revegetation materials, methods, and techniques to be employed will be acceptable to the BLM and State of Utah.

2.0 RECLAMATION

KMG also plans to employ mechanical site stabilization measures at well pad sites and within road corridors as a part of this project. Both interim and final reclamation of individual facilities would involve three primary components. They are backfilling, grading, redistributing soils, and installing structures to control erosion. Additional information is provided for each of these activities *Chapter 2.0: Description of Alternatives, Including Proposed Action.* A summary of these actions is provided below.

Prior to grading and construction, soil will be stripped from the site to an average depth of 0.6 inches and stockpiled along the outer boundary of the proposed disturbance. The stockpile(s) will be protected from operational disturbances to maintain facility integrity. The stockpiles will assume as low a profile as possible to decrease wind erosion potential and be oriented, along the longitudinal axis, perpendicular to the prevailing wind direction, if possible, to reduce wind erosion. Stockpiles will be clearly identified with signs to distinguish them from subgrade or other construction materials.

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Interim Reclamation

On areas previously disturbed and no longer needed for production, including portions of the wellpads not needed for operational and safety purposes, and reserve pits, interim reclamation will be conducted. Wellpad size will be reduced to the minimum size necessary to conduct safe operations. Cuts and fills will be reduced to a contour of 3:1 or shallower. Reserve pits will be closed and backfilled as soon as pit contents are dry, or by the end of the next full summer following rig release, whichever is first. Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling. Pit liners will be buried after completion activities. If the pit liner was synthetic, the pit will not trenched or filled while containing fluids. The pit will then be backfilled with a minimum of five feet of soil material when it dries out. In flat areas, to account for settling, and to promote surface drainage away from the backfilled pit, the pit area will be slightly mounded.

Interim reclamation will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes to an interim contour that blends with the surrounding topography as much as possible. Once contouring is complete, topsoil stockpiles will be then be re-spread over the disturbed area to preserve the topsoil as a growth medium for final reclamation. The re-spread topsoil will be revegetated with an interim reclamation certified weed-free seed mix designed by the BLM (See Tables 1 through 4). Prior to seeding, the seedbeds will be prepared by backfilling, leveling, and ripping all compacted areas. Contour cultivating to a depth of 4 to 6 inches will be conducted within 24 hours prior to seeding. To mitigate the contrast of recontoured slopes, cleared lines of vegetation will be feathered, and cleared trees, debris and rock will be saved and redistributed over recontoured cut and fill slopes.

Criteria for successful reclamation will include 70 percent of predisturbance cover, 90 percent of dominate species consisting of species in the seed mix and/or found in the surrounding natural undisturbed vegetation, and erosion features equal to or less than surrounding area or any criteria specified by the BLM.

Final Reclamation

For final reclamation facility structures would be removed and drill holes would be plugged and abandoned in accordance with Onshore Oil and Gas Order No. 2. Following the removal of the surface facility, reclamation would begin with backfilling, if necessary, and grading of the sites to approximate natural contours. The area would then be ripped to a depth of 12 inches to eliminate any compaction that may have occurred during final grading. The surface will be left in a slightly roughened condition to decrease erosion and promote site stability. Water bars and physical barricades may be implemented to promote site stabilization following grading.

Pipelines and subsurface power lines would be abandoned in place to avoid renewed surface disturbance. Pipelines will be cleaned by filling with water or nitrogen and pigging to remove the water or nitrogen. Reclamation and abandonment of pipelines and flowlines would require backfilling original cuts, reducing and grading cut and fill slopes to conform to the adjacent terrain, replacement of surface soil materials, water barring, and revegetation. All access roads constructed by the operator would be closed and reclaimed after well plugging and abandonment unless the landowner's and/or land managers request to keep any roads, and accept responsibility for future road maintenance. When the roads are decommissioned, the existing gravel surfacing will be removed and disposed of in an approved manner. Any unnecessary culverts or similar such improvements will also be excavated and disposed of. Natural drainage patterns will be restored along the road and constructed road crossings removed. Road reclamation may include ripping, scarifying, water barring, and barricading.

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All final grading will be completed along the contour, where safety conditions permit, to minimize erosion and maximize site stability. Soil samples will then be taken for laboratory analysis. All surface equipment operations will be completed perpendicular to the slope angle where aerial and safety conditions permit.

For final reclamation, salvaged soil will be applied on areas to be revegetated within 30 to 60 days prior to seeding. Salvaged soil will be redistributed to an average depth of 0.5 feet in a manner that: (1) achieves an approximate uniform thickness consistent with safety requirements, post-disturbance land use objectives, and surface water drainage systems; (2) minimizes compaction and erosion of the soil resource; and (3) minimizes deterioration of the biological, physical, and chemical properties of the soil to the degree possible. Soil will be applied in a single operation to minimize equipment passes over the resoiled area. Following soil redistribution, the disturbed area will be left in a roughened condition.

Final Revegetation

The primary objectives of revegetation are to stabilize the disturbed soils of the project area; establish adapted, self-sustaining, productive vegetation communities capable of supporting the planned post-disturbance land uses on disturbed areas, and; create useful wildlife habitat in terms of cover and food sources. To this end, a variety of grass, forb, and shrub species have been selected for planting based, variably, on their rapid establishment potentials, soil/hydrologic adaptations, and wildlife habitat values. In addition, the forb species selected for planting exhibit flowering characteristics valuable with respect to esthetic concerns. Seeding and/or planting would be repeated until satisfactory revegetation to predisturbance conditions is accomplished, as determined by the BLM or other landowner.

Final revegetation would occur after final grading and soil redistribution as described above. Final revegetation involves seedbed preparation, fertilization if necessary, seeding, and mulching. Seedbed preparation would be conducted immediately after grading, and soil redistribution. The seedbed will be harrowed or otherwise roughened to incorporate the fertilizer into the applied soil and prepare the area for seeding. Fertilizer will be broadcast over the seedbed at rates specified as a result of the laboratory analysis conducted as described above.

Seeding would be coordinated with other reclamation activities to occur as soon after seedbed preparation as possible. The seed mixtures to be planted, depending upon vegetation type disturbed, are depicted in Tables 1 through 3. Disturbance areas would be seeded using the appropriate revegetation mixture. Seeding would occur from October 1 to November 15 and from February 1 to March 31. Fall seeding is recommended based on local soil moisture conditions, germination requirements of selected species, and adaptation of seed to soil temperature. Spring seeding would be utilized if areas are ready for revegetation and access is possible. Mixed seedings, one seeding to plant cool season plants in early fall and one seeding to plant warm season plants in spring, would be timed to avoid competition between species and avoid seed distribution problems. Drill seeding would be used on most of the disturbed well site areas. Broadcast seeding would be employed on rocky areas, on steeper slopes, and on small disturbances. Where practical, broadcast seeding areas would be chained, harrowed or cultipacked to cover the seed. Where slope conditions allow, broadcast seeded areas would be dozer-tracked perpendicular to the slope. On small, isolated, or inaccessible sites, hand raking would be used to cover seed and ensure contact between the soil and the seed.

The planted area will then be mulched with the equivalent of 2 tons of certified weed-free hay or straw mulch per acre and the mulch anchored by crimping. Mulch should be evenly spread over the seeded area at rates dependent on seeding method and slope, as needed.

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Hydromulch at a rate of 0.5 to 0.75 tons per acre can be used in lieu of straw mulching as long as the seed is not applied simultaneously with the mulch.

Livestock grazing can occur on revegetated areas during the reclamation liability period as long as appropriate levels of grazing are maintained. As an adjunct planting operation, shrub seedlings will be planted on all well and facility site disturbed areas with slopes exceeding 2H:1V. The shrubs will be planted on 10-foot centers. The species to be planted and the areas within which planting will occur will be determined at the time of grading and resoiling.

Recommended Seed Mix

Table 1. Seed Mixture For the Salt Desert Scrub Areas

Common Name	Scientific Name	Pounds per acres (PLS) ¹
Grasses		
Squirreltail	Elymus elymoides	3
Siberian Wheatgrass	Agropyron sibericum	4
Indian Ricegrass	Achnatherum hymenoides	3
Alkali Sacaton	Sporobolus airoides	2
Forbs		
Gooseberryleaf Globemallow	Sphaeralcea grossulariifolia	1
Palmer's Penstemon	Penstemon palmeri	2
Shrubs		
Fourwing Saltbrush	Atriplex conescens	3
Shadscale Saltbrush	Atriplex confertifolia	3
Winterfat	Krascheninnikovia lanata	3
1_	Total	24

¹ Seeding rate is listed as pounds per acre of pure live seed (PLS) drilled. Rate is increased by 50 percent if broadcast seeded (PLS = % seed purity x % seed germination)

Rate of plantings per linear feet of disturbed stream bank is as follows: sedge and rush root mass plugs, one 4-inch diameter plug per 5 linear feet; willows, one cutting per linear foot; and cottonwood stock, one cluster planting of 7 trees per 25 linear feet. Individual cottonwood stock, within a planting cluster would be spaced two feet apart. The willows and cottonwoods would be planted adjacent to the stream bank in moist soil, yet above the normal water line.

Shrub seed sources would be from the states of Colorado and Utah and from areas above elevation of 4,000 feet above sea level. Seed from these sources would provide more winter tolerant plants, thus, increasing over-winter survival rates.

² Shrub seed to be broadcast simultaneously with drilling. The seeding rate for herbaceous species will be doubled where broadcast seeding methods are used.

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3.0 REVEGETATION SCHEDULE

Excavation and grading may ordinarily occur during any month of the year. However, revegetation activities are more limited with respect to the time of year in which they should be completed and should be timed to coincide with a recognized planting season. The following tables depict the Fall and Spring revegetation schedules, on a monthly basis, to be followed to achieve the revegetation objectives set for this project. Site conditions and/or climatic variations may require that these schedules be modified somewhat to achieve reclamation success.

Table 2. Fall Revegetation Schedule

	Month			
Reclamation Technique	J F M A M J J A S O N D			
Excavation/Grading	Any month			
Resoiling and/or Ripping (if necessary)	XXX			
Seedbed Material Sampling	XXX			
Fertilization	XXX			
Seedbed Preparation	XXX			
Seeding	XX			
Mulching	xx			
Seedling Planting (following year)	XX			

Table 3. Spring Revegetation Schedule

Reclamation Technique	Month J F M A M J J A S O N D
Excavation/Grading	Any month
Resoiling and/or Ripping (if necessary)	XXX
Seedbed Material Sampling	xxx
Fertilization	XX
Seedbed Preparation	XX
Seeding	XX
Mulching	XX
 Seedling Planting	XX

Note: Weather and surface conditions permitting, the earlier in the season planting is completed the higher the potential for revegetation success.

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Green River District Reclamation Guidelines

The Green River District Office Guidelines applies to all surface disturbing activities upon BLM administered surface lands. These activities include all actions authorized, conducted, or funded by the BLM, and that disturb the soil resources on the public lands. This policy is intended to be compatible with other BLM program objectives.

A reclamation plan shall be developed for all surface disturbing activities. The level of detail for the reclamation plan shall reflect: the complexity of the project, the environmental concerns generated during project review, and the reclamation potential for the site. These plans shall also incorporate any program or regulatory specific requirements for reclamation. The reclamation plan will address short term stabilization to facilitate long term reclamation. The reclamation plan is considered complete when all the reclamation requirements described below have been addressed, the techniques needed to meet the reclamation standards are described in detail, and the BLM concurs with the reclamation plan.

Compliance with the requirements of this document will be a Surface Use Condition of Approval (COA) and approved mitigation actions for all future BLM authorizations within the jurisdiction of the Green River District Office.

A. RECLAMATION GOAL

- 1. The long term goal for reclamation is to facilitate eventual ecosystem reconstruction by returning the land to a safe, stable, and proper functioning condition.
- 2. The short-term reclamation goal is to immediately stabilize disturbed areas and to provide the necessary conditions to achieve the long term goal.

B. RECLAMATION OBJECTIVES

- 1. Establish a desired self-perpetuating diverse plant community. The objective is to attain 75% basal cover based on similar undisturbed adjacent native vegetative community, and comprised of desired species and/or seeded species within 5 years of initial reclamation action. However if after three (3) growing seasons there is less than 30% of the basal cover based on similar undisturbed native vegetative community, then the Authorized Officer may require additional seeding efforts.
- 2. Establish slope stability and desired topographic diversity.
- 3. Reconstruct and stabilize altered water courses and drainage features.
- 4. Ensure the biological, chemical, and physical integrity of the topsoil resource during all phases of construction, operation, and reclamation. BMP's designed to minimize and

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prevent erosion, compaction, and contamination of the topsoil resource should be used to maintain the topsoil resource.

- 5. Re-establish the visual composition and characteristics to blend with the natural surroundings.
- 6. Control the occurrences of noxious weeds and undesirable invasive species by utilizing principles of integrated weed management including prevention, mechanical, chemical, and biological control methods.
- 7. Manage all waste materials.
- 8. Conduct monitoring that is able to assess the attainment or failure of reclamation actions.

C. RECLAMATION ACTIONS

The following Reclamation Actions are intended to facilitate the achievement of the Reclamation Objectives. These actions shall be adhered to during reclamation activities. Changes/alterations to the Reclamation Actions should be detailed in the submitted reclamation plan as to why the changes/alterations are necessary and approved by the Authorized Officer.

Objective 1. Establish a desired self-perpetuating plant community.

Action 1a. Use of non native plant species is allowed, however, selected non native species should be selected that will not displace or offer long-term competition to the native plants.

Action 1b. Drill Seeding is the preferred method of seed application unless site conditions preclude the use of drill seeding equipment. Drill seeds at the rate of 45 Pure Live Seeds (PLS) per linear foot. Seeds should be drilled to a depth of .25.to .50 inches. Some plant seeds should not be drilled and if incorporated the application method should fit the seed type requirements.

Action 1c. Areas in excess of 40% slope or are excessively rocky will be broadcast seeded at 80-90 PLS and covered to a maximum of 0.25 inches by harrowing, drag bar, or roller.

Action 1d. Seeding efforts must be conducted between August15 and prior to winter freezing of the soil.

Action 1e. All seed utilized will be tested prior to application to ensure BLM specifications for PLS, purity, noxious weeds, etc. have been met. Seed tags will be provided to the Authorized Officer prior to initiation of seeding activities.

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Action 1f. As determined in cooperation with the Authorized Officer, fencing may be required to exclude livestock/big game grazing until seeded species have become established. Fencing would be constructed to BLM standards.

Action 1g. As determined in cooperation with the Authorized Officer mulching may be required. Mulch should be applied within 24 hours following completion of seeding. Mulching should consist of crimping certified weed-free straw or certified weed-free native grass hay into the soil. Hydro-mulching may be used in areas where crimping is impracticable, in areas of interim reclamation that were hydro-seeded, and in areas of temporary seeding regardless of seeding method.

Objective 2. Ensure slope stability and topographic diversity

Action 2a. Reconstruct the landscape to approximate the original contour and topographic diversity.

Action 2b. Identify necessary erosion controls designed to prevent sediment transport from the reclaimed areas.

Objective 3. Reconstruct and stabilize altered water courses and drainage features.

Action 3a. Reconstruct drainage basins to have similar features found in nearby properly functioning basins, including: basin relief ratios, valley gradients, sinuosity, and drainage densities for all reclaimed basins.

Action 3b. Reconstruct drainages to have similar hydraulic characteristics found in properly functioning drainages, including: flow depth, water surface top width, cross-section area of flow, water surface slope, mean channel velocity, desired vegetation, and channel roughness.

Objective 4. Ensure the biological, chemical, and physical integrity of the topsoil resource during all phases of construction, operation, and reclamation. BMP's designed to minimize and prevent erosion, compaction, and contamination of the topsoil resource should be used to maintain the topsoil resource.

Action 4a. Segregate topsoil from subsoil without mixing them, based on site specific conditions.

Action 4b. Where possible, integrate stored topsoil into existing production landscape.

Action 4c. Stabilize all stored topsoil from erosion, and seed topsoil stored beyond one growing season with an approved seed mixture.

Action 4d. Identify topsoil storage with appropriate signage, to prevent improper use of the stored topsoil.

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Action 4e. Redistribute the topsoil to pre-disturbance depth.

Action 4f. Reduce soil/subsoil compaction to the anticipated root depth of the desired plant species. Compaction relief typically should be designed for 18-24 inches in depth. Compaction relief should be designed to create a cross hatch pattern, and distance between furrows should not be greater than 2 feet.

Action 4g. If the topsoil to be re spread is greater than 6" in depth, then topsoil should be applied and then compaction relief implemented. If the topsoil to be re spread is less than 6", then compaction relief should be implemented prior to top soil application. Avoid leaving large clumps/clods, if this exists, discing may be necessary.

Objective 5. Re-establish the visual composition and characteristics to blend with the natural surroundings.

Action 5a. Ensure the overall location, landform, scale, shape, color, and orientation of major landscape features blends into the adjacent area and meets the needs of the planned post disturbance land use.

Objective 6. Control the occurrences of noxious weeds and undesirable invasive species by utilizing principles of integrated weed management including prevention, mechanical, chemical, and biological control methods.

Action 6a. Inventory and document noxious and invasive plant infestations before reclamation actions begin.

Action 6b. Control and manage Invasive and Noxious weed infestations using principles of integrated weed management including chemical, mechanical, and biological control methods. An approved Pesticide Use Proposal PUP) is required for all planned herbicide applications. Herbicides must be applied by a certified applicator with a current Utah Pesticide Applicators License. A Biological Use Proposal is required for new biocontrol agents in the Field Office area.

Objective 7. Manage all waste materials.

Action 7a. Segregate all waste materials from the subsoil and topsoil.

Action 7b. All waste materials transported and disposed of off-site, must be placed in an authorized disposal facility in accordance with all local, State and Federal requirements.

Objective 8. Conduct monitoring that is able to assess the attainment or failure of reclamation actions.

Action 8a. Monitoring methodology should be an approved BLM method designed to monitor basal vegetative cover.

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Action 8b. In cooperation with the Authorized Officer, an undisturbed reference site should be selected prior to monitoring. One reference site may be used for multiple reclamation sites as long the site potentials are similar.

Action 8c. Evaluate monitoring data for compliance with the reclamation plan objectives

Action 8d. Document and report monitoring data and recommend revised reclamation strategies, if necessary. Each applicant will submit an annual reclamation report to the Authorized Officer by March 31st. The report will document compliance with all aspects of the reclamation objectives and standards.

Action 8e. Implement revised reclamation strategies as needed.

Action 8f. Repeat the process of monitoring, evaluating, documenting/reporting, and implementing, until reclamation goals are achieved, as determined by the Authorized Officer.

GLOSSARY

Surface Disturbing Activities — An action that alters the mineral soil resource, and/or surface geologic features, beyond natural site conditions and on a scale that affects other Public Land values. Examples of surface disturbing activities may include: operation of heavy equipment to construct well pads, roads, pits and reservoirs; installation of pipelines and power lines; and the conduct of several types of vegetation treatments. Surface disturbing activities may be either authorized or prohibited.

Federal Action - Approval of specific projects, such as construction or management activities located in a defined geographic area. Projects include actions approved by permit or other regulatory decision as well as federal and federally assisted activities.

National Environmental Policy Act (NEPA) [42 U.S.C. 4321 et seq.]

Invasive Species - A species that is not native (or is alien) to the ecosystem under consideration and whose introduction causes or is likely to cause economic or environmental harm or harm to human health.

Executive Order 13112

Reclamation Plan – A written document that addresses the reconstruction of disturbed ecosystems by returning the land to a condition approximate or equal to that which existed prior to disturbance, or to a stable and productive condition compatible with the land use plan.

Waste materials – Any material that can interfere with successful reclamation, safety, and long term stability of a site (contaminated soil or water, drilling muds, solid waste). Adapted from various sources

Contamination - The presence of man-made chemicals or other alterations in the natural soil or water environment (pesticides, hazardous substances, petroleum, salts). *Adapted from various sources*